



ISO/IEC 17025:2017
12-LAB-051



IES INDOOR REPORT PHOTOMETRIC FILENAME : 1464-2420003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[NAME] INFORME DE RESULTADOS SIMPLIFICADO - FSLA01b V03 2023-04-14

[TESTING METHOD] ANSI/IES LM-79-19 Numerales 5 y 7.3

[TEST] 1464-2420003

[ISSUEDATE] 09-feb-24

[MANUFAC] ELECTROCONTROL S.A.S.

[LUMCAT] LED

[LUMINAIRE] Luminaria Magnus LED 260 W - M16B-90 TC 5700K

[LAMPCAT] Magnus 5 Modulos

[LAMP] 5 Modulos LEDs - HP Winner - M16A - M16A-90D2190 - 5700 K

[BALLAST] INVENTRONICS - 2 LED Driver

[TESTLAB] LAPEC LABORATORIO DE PRUEBAS Y ENSAYOS ELECTROCONTROL

[MORE] Voltaje (V): 220.00; Corriente (A): 1.2423; Potencia (W): 266.855; Frecuencia (Hz): 60

[MORE] Este informe contiene 11 paginas.

[MORE] El Anexo IES es parte integral de este informe.

[MORE] El presente informe NO puede reproducirse parcialmente sin la aprobacion del Laboratorio.

[MORE] El Laboratorio LAPEC NO es responsable de los perjuicios por el uso inadecuado de este informe.

[MORE] Calle 59 No. 59-194 Copacabana, Antioquia; Tel: (+57) 314 488 7855

[MORE] Lapec@electrocontrol.com.co; Tlaboratorio@electrocontrol.com.co; <https://www.electrocontrol.com.co/>

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	49740
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	186
Total Luminaire Watts	266.855
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.37 m
Luminous Width (90-270)	0.21 m
Luminous Height	0.01 m



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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	263088	253017	237494
55	170431	158928	134254
65	54048	51797	39443
75	17297	20304	20653
85	2111	3452	7181

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497
2.5	22427.079	22498.761	22427.079	22480.718	22516.315	22516.315	22551.912	22498.761	22551.912	22480.718
5.0	22498.761	22516.315	22445.121	22516.315	22498.761	22516.315	22498.761	22445.121	22498.761	22480.718
7.5	22427.079	22427.079	22391.482	22480.718	22462.676	22480.718	22480.718	22462.676	22427.079	22355.885
10.0	22355.885	22337.843	22337.843	22409.037	22355.885	22355.885	22373.440	22355.885	22427.079	22355.885
12.5	22302.246	22230.564	22266.649	22355.885	22337.843	22302.246	22302.246	22266.649	22230.564	22266.649
15.0	22176.925	22105.731	22176.925	22159.370	22194.967	222194.967	222141.328	22176.925	22213.009	22123.773
17.5	22052.091	21980.898	22016.495	22052.091	22034.537	22070.134	21998.940	22016.495	22016.495	21980.898
20.0	21838.022	21731.231	21802.425	21802.425	21784.870	21820.467	21784.870	21838.022	21784.870	21820.467
22.5	21641.995	21535.204	21552.758	21552.758	21570.801	21552.758	21535.204	21535.204	21499.607	21481.564
25.0	21357.219	21249.940	21249.940	21267.982	21285.537	21249.940	21232.385	21267.982	21161.191	21196.788
27.5	20965.164	20912.013	20929.567	20912.013	20893.970	20893.970	20858.373	20858.373	20769.625	20769.625
30.0	20485.336	20467.294	20449.739	20414.142	20396.588	20396.588	20378.545	20360.991	20236.645	20254.200
32.5	19916.760	19899.205	19863.608	19792.902	19774.859	19792.902	19792.902	19721.708	19651.001	19633.447
35.0	19137.039	19155.082	19101.930	19066.333	19030.736	19013.181	19048.778	18995.627	18871.769	18871.769
37.5	18252.966	18288.563	18252.966	18235.411	18182.747	18147.150	18112.041	18094.486	18058.889	17970.628
40.0	17230.894	17248.448	17195.784	17160.675	17107.523	17089.969	17089.969	17037.305	16967.086	16949.531
42.5	16036.688	16054.242	16036.688	15984.024	15949.402	15879.183	15861.629	15826.519	15773.855	15756.301
45.0	14656.207	14708.384	14708.384	14656.207	14638.653	14551.367	14499.190	14533.812	14447.014	14447.014
47.5	13074.823	13109.445	13109.445	13091.890	13057.269	13005.580	12988.025	12988.025	12918.782	12884.160
50.0	11383.722	11400.789	11383.722	11366.655	11383.722	11314.967	11314.967	11297.899	11246.211	11160.388
52.5	9569.739	9620.940	9603.873	9620.940	9638.007	9620.940	9586.806	9552.672	9501.471	9382.489
55.0	7789.402	7840.115	7805.981	7840.115	7805.981	7772.335	7772.335	7738.688	7637.261	7519.742
57.5	5933.969	5956.888	5933.969	5933.969	5911.051	5865.214	5819.376	5774.027	5683.328	5548.742
60.0	4115.110	4135.102	4135.102	4135.102	4115.110	4056.106	4056.106	3997.103	3938.588	3784.009
62.5	2785.830	2785.830	2768.763	2802.897	2785.830	2768.763	2751.696	2700.495	2666.848	2582.976
65.0	1854.457	1900.294	1885.178	1915.411	1961.248	2007.085	1961.248	1961.248	1900.294	1869.573
67.5	1126.425	1110.334	1142.029	1189.817	1221.513	1283.930	1346.834	1346.834	1378.042	1346.834
70.0	719.742	719.742	752.901	736.321	769.480	802.639	851.890	901.140	965.995	982.087
72.5	516.888	516.888	516.888	551.510	533.955	568.089	568.089	619.290	619.290	703.162
75.0	378.401	360.846	360.846	378.401	360.846	378.401	413.510	448.132	430.577	482.754
77.5	255.030	272.585	255.030	236.988	218.946	290.627	290.627	290.627	343.292	325.737
80.0	164.819	146.777	110.692	128.734	128.734	146.777	146.777	164.819	182.861	218.946
82.5	92.162	55.590	37.060	74.120	37.060	55.590	55.590	74.120	74.120	74.120
85.0	18.530	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	37.060
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497
2.5	22498.761	22498.761	22498.761	22516.315	22498.761	22498.761	22534.358	22534.358	22516.315	22534.358
5.0	22427.079	22445.121	22445.121	22445.121	22480.718	22498.761	22498.761	22516.315	22516.315	22516.315
7.5	22445.121	22445.121	22409.037	22409.037	22445.121	22445.121	22427.079	22445.121	22498.761	22445.121
10.0	22355.885	22373.440	22284.203	22266.649	22302.246	22302.246	22302.246	22355.885	22409.037	22355.885
12.5	22266.649	22284.203	22230.564	22176.925	22213.009	22213.009	222194.967	22266.649	22266.649	22266.649
15.0	22141.328	22176.925	22123.773	22052.091	22052.091	22052.091	22070.134	222141.328	22105.731	22141.328
17.5	21962.855	21980.898	21945.301	21909.704	21874.107	21856.064	21856.064	21891.661	21927.258	21891.661
20.0	21731.231	21749.273	21766.828	21695.634	21660.037	21660.037	21641.995	21695.634	21695.634	21695.634
22.5	21517.161	21481.564	21499.607	21428.413	21374.773	21357.219	21339.176	21374.773	21374.773	21374.773
25.0	21196.788	21071.955	21071.955	21071.955	21018.804	20965.164	20983.207	21018.804	20983.207	21018.804
27.5	20734.028	20662.834	20645.279	20627.237	20591.640	20556.530	20591.640	20574.085	20538.488	20574.085
30.0	20236.645	20147.896	20129.854	20076.702	20059.148	19987.954	20023.551	20023.551	19970.399	20023.551

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CANDELA TABULATION - (Cont.)

32.5	19597.85019509.10119455.94919420.35219420.35219332.09119367.20119332.09119278.94019332.091
35.0	18854.21418783.50818730.35618694.75918659.65018606.49818624.05318588.94318535.79218588.943
37.5	17970.62817900.41017829.70317777.03917723.88817671.22417671.22417653.66917582.96317653.669
40.0	16949.53116879.31216809.09416720.83316668.16916580.39516527.73116457.51316387.29416457.513
42.5	15756.30115651.46015564.17415511.51015354.00615232.09815161.88015074.59415022.41715074.594
45.0	14429.45914289.99714168.57714046.67013907.69513785.78813646.81313577.57013490.77213577.570
47.5	12814.91612659.36212503.80812365.80912210.25512089.81111951.81111830.87911779.19011830.879
50.0	11074.56510902.91910714.20610560.11510406.02410286.55510167.08610098.33010012.99410098.330
52.5	9246.440 9008.477 8855.361 8685.666 8550.104 8414.543 8313.116 8228.756 8178.043 8228.756
55.0	7368.089 7216.436 7031.625 6897.039 6729.294 6662.489 6520.101 6377.225 6306.519 6377.225
57.5	5348.813 5174.242 4937.254 4789.502 4663.693 4539.348 4416.465 4335.518 4315.038 4335.518
60.0	3669.416 3519.226 3408.046 3279.799 3135.461 3064.267 2994.048 2906.762 2889.208 2906.762
62.5	2516.658 2434.737 2353.302 2236.271 2175.317 2098.760 2068.039 2022.202 2007.085 2022.202
65.0	1823.736 1762.782 1701.829 1640.387 1548.225 1517.505 1470.692 1455.576 1408.763 1455.576
67.5	1378.042 1346.834 1300.022 1237.117 1189.817 1142.029 1126.425 1094.242 1078.638 1094.242
70.0	1014.270 1014.270 1014.270 982.087 949.903 917.232 901.140 868.469 851.890 868.469
72.5	719.742 819.218 819.218 786.060 752.901 719.742 686.583 669.516 652.937 669.516
75.0	499.821 568.089 619.290 635.870 619.290 602.223 568.089 533.955 482.754 533.955
77.5	343.292 395.956 448.132 482.754 482.754 482.754 413.510 413.510 343.292 413.510
80.0	236.988 236.988 290.627 290.627 308.182 360.846 343.292 290.627 218.946 290.627
82.5	110.692 110.692 146.777 164.819 200.904 200.904 218.946 182.861 200.904 182.861
85.0	37.060 55.590 55.590 74.120 55.590 110.692 110.692 110.692 74.120 110.692
87.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 37.060 0.000 37.060
90.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

Vert. Horizontal Angles

Angles	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	22824.49722824.49722824.49722824.49722824.49722824.49722824.49722824.49722824.49722824.49722824.497									
2.5	22534.35822498.76122498.76122516.31522498.76122498.76122498.76122480.71822551.91222498.761									
5.0	22498.76122498.76122480.71822445.12122445.12122445.12122427.07922480.71822498.76122445.121									
7.5	22427.07922445.12122445.12122409.03722409.03722445.12122445.12122462.67622516.31522462.676									
10.0	22302.24622302.24622302.24622266.64922284.20322373.44022355.88522355.88522427.07922355.885									
12.5	22194.96722213.00922213.00922176.92522230.56422284.20322266.64922266.64922319.80022266.649									
15.0	22070.13422052.09122052.09122052.09122123.77322176.92522141.32822123.77322213.00922176.925									
17.5	21856.06421856.06421874.10721909.70421945.30121980.89821962.85521980.89822016.49522016.495									
20.0	21641.99521660.03721660.03721695.63421766.82821749.27321731.23121820.46721784.87021838.022									
22.5	21339.17621357.21921374.77321428.41321499.60721481.56421517.16121481.56421499.60721535.204									
25.0	20983.20720965.16421018.80421071.95521071.95521071.95521196.78821196.78821161.19121267.982									
27.5	20591.64020556.53020591.64020627.23720645.27920662.83420734.02820769.62520769.62520858.373									
30.0	20023.55119987.95420059.14820076.70220129.85420147.89620236.64520254.20020236.64520360.991									
32.5	19367.20119332.09119420.35219420.35219455.94919509.10119597.85019633.44719651.00119721.708									
35.0	18624.05318606.49818659.65018694.75918730.35618783.50818854.21418871.76918871.76918995.627									
37.5	17671.22417671.22417723.88817777.03917829.70317900.41017970.62817970.62818058.88918094.486									
40.0	16527.73116580.39516668.16916720.83316809.09416879.31216949.53116949.53116967.08617037.305									
42.5	15161.88015232.09815354.00615511.51015564.17415651.46015756.30115756.30115773.85515826.519									
45.0	13646.81313785.78813907.69514046.67014168.57714289.99714429.45914447.01414447.01414533.812									
47.5	11951.81112089.81112210.25512365.80912503.80812659.36212814.91612884.16012918.78212988.025									
50.0	10167.08610286.55510406.02410560.11510714.20610902.91911074.56511160.38811246.21111297.899									
52.5	8313.116 8414.543 8550.104 8685.666 8855.361 9008.477 9246.440 9382.489 9501.471 9552.672									
55.0	6520.101 6662.489 6729.294 6897.039 7031.625 7216.436 7368.089 7519.742 7637.261 7738.688									
57.5	4416.465 4539.348 4663.693 4789.502 4937.254 5174.242 5348.813 5548.742 5683.328 5774.027									
60.0	2994.048 3064.267 3135.461 3279.799 3408.046 3519.226 3669.416 3784.009 3938.588 3997.103									
62.5	2068.039 2098.760 2175.317 2236.271 2353.302 2434.737 2516.658 2582.976 2666.848 2700.495									
65.0	1470.692 1517.505 1548.225 1640.387 1701.829 1762.782 1823.736 1869.573 1900.294 1961.248									
67.5	1126.425 1142.029 1189.817 1237.117 1300.022 1346.834 1378.042 1346.834 1378.042 1346.834									

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CANDELA TABULATION - (Cont.)

70.0	901.140	917.232	949.903	982.087	1014.270	1014.270	1014.270	982.087	965.995	901.140
72.5	686.583	719.742	752.901	786.060	819.218	819.218	719.742	703.162	619.290	619.290
75.0	568.089	602.223	619.290	635.870	619.290	568.089	499.821	482.754	430.577	448.132
77.5	413.510	482.754	482.754	482.754	448.132	395.956	343.292	325.737	343.292	290.627
80.0	343.292	360.846	308.182	290.627	290.627	236.988	236.988	218.946	182.861	164.819
82.5	218.946	200.904	200.904	164.819	146.777	110.692	110.692	74.120	74.120	74.120
85.0	110.692	110.692	55.590	74.120	55.590	55.590	37.060	37.060	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles Horizontal Angles

	150	155	160	165	170	175	180	185	190	195
0.0	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497
2.5	22551.912	22516.315	22516.315	22480.718	22427.079	22498.761	22427.079	22498.761	22427.079	22480.718
5.0	22498.761	22516.315	22498.761	22516.315	22445.121	22516.315	22498.761	22516.315	22445.121	22516.315
7.5	22480.718	22480.718	22462.676	22480.718	22391.482	22427.079	22427.079	22427.079	22391.482	22480.718
10.0	22373.440	22355.885	22355.885	22409.037	22337.843	22337.843	22355.885	22337.843	22337.843	22409.037
12.5	22302.246	22302.246	22337.843	22355.885	22266.649	22230.564	22302.246	22230.564	22266.649	22355.885
15.0	22141.328	22194.967	22194.967	22159.370	22176.925	22105.731	22176.925	22105.731	22176.925	22159.370
17.5	21998.940	22070.134	22034.537	22052.091	22016.495	21980.898	22052.091	21980.898	22016.495	22052.091
20.0	21784.870	21820.467	21784.870	21802.425	21802.425	21731.231	21838.022	21731.231	21802.425	21802.425
22.5	21535.204	21552.758	21570.801	21552.758	21552.758	21535.204	21641.995	21535.204	21552.758	21552.758
25.0	21232.385	21249.940	21285.537	21267.982	21249.940	21249.940	21357.219	21249.940	21249.940	21267.982
27.5	20858.373	20893.970	20893.970	20912.013	20929.567	20912.013	20965.164	20912.013	20929.567	20912.013
30.0	20378.545	20396.588	20396.588	20414.142	20449.739	20467.294	20485.336	20467.294	20449.739	20414.142
32.5	19792.902	19792.902	19774.859	19792.902	19863.608	19899.205	19916.760	19899.205	19863.608	19792.902
35.0	19048.778	19013.181	19030.736	19066.333	19101.930	19155.082	19137.039	19155.082	19101.930	19066.333
37.5	18112.041	18147.150	18182.747	18235.411	18252.966	18288.563	18252.966	18288.563	18252.966	18235.411
40.0	17089.969	17089.969	17107.523	17160.675	17195.784	17248.448	17230.894	17248.448	17195.784	17160.675
42.5	15861.629	15879.183	15949.402	15984.024	16036.688	16054.242	16036.688	16054.242	16036.688	15984.024
45.0	14499.190	14551.367	14638.653	14656.207	14708.384	14708.384	14656.207	14708.384	14656.207	14708.384
47.5	12988.025	13005.580	13057.269	13091.890	13109.445	13109.445	13074.823	13109.445	13109.445	13091.890
50.0	11314.967	11314.967	11383.722	11366.655	11383.722	11400.789	11383.722	11400.789	11383.722	11366.655
52.5	9586.806	9620.940	9638.007	9620.940	9603.873	9620.940	9569.739	9620.940	9603.873	9620.940
55.0	7772.335	7772.335	7805.981	7840.115	7805.981	7840.115	7789.402	7840.115	7805.981	7840.115
57.5	5819.376	5865.214	5911.051	5933.969	5933.969	5956.888	5933.969	5956.888	5933.969	5933.969
60.0	4056.106	4056.106	4115.110	4135.102	4135.102	4135.102	4115.110	4135.102	4135.102	4135.102
62.5	2751.696	2768.763	2785.830	2802.897	2768.763	2785.830	2785.830	2785.830	2768.763	2802.897
65.0	1961.248	2007.085	1961.248	1915.411	1885.178	1900.294	1854.457	1900.294	1885.178	1915.411
67.5	1346.834	1283.930	1221.513	1189.817	1142.029	1110.334	1126.425	1110.334	1142.029	1189.817
70.0	851.890	802.639	769.480	736.321	752.901	719.742	719.742	752.901	736.321	769.480
72.5	568.089	568.089	533.955	551.510	516.888	516.888	516.888	516.888	551.510	533.955
75.0	413.510	378.401	360.846	378.401	360.846	360.846	378.401	360.846	360.846	378.401
77.5	290.627	290.627	218.946	236.988	255.030	272.585	255.030	272.585	255.030	236.988
80.0	146.777	146.777	128.734	128.734	110.692	146.777	164.819	146.777	110.692	128.734
82.5	55.590	55.590	37.060	74.120	37.060	55.590	92.162	55.590	37.060	74.120
85.0	0.000	0.000	0.000	0.000	0.000	0.000	18.530	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles Horizontal Angles

	200	205	210	215	220	225	230	235	240	245
0.0	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497	22824.497
2.5	22516.315	22516.315	22551.912	22498.761	22551.912	22480.718	22498.761	22498.761	22498.761	22516.315

CANDELA TABULATION - (Cont.)

5.0	22498.76122516.31522498.76122445.12122498.76122480.71822427.07922445.12122445.12122445.121
7.5	22462.67622480.71822480.71822462.67622516.31522462.67622445.12122445.12122409.03722409.037
10.0	22355.88522355.88522373.44022355.88522427.07922355.88522355.88522373.44022284.20322266.649
12.5	22337.84322302.24622302.24622266.64922319.80022266.64922266.64922284.20322230.56422176.925
15.0	22194.96722194.96722141.32822176.92522213.00922123.77322141.32822176.92522123.77322052.091
17.5	22034.53722070.13421998.94022016.49522016.49521980.89821962.85521980.89821945.30121909.704
20.0	21784.87021820.46721784.87021838.02221784.87021820.46721731.23121749.27321766.82821695.634
22.5	21570.80121552.75821535.20421535.20421499.60721481.56421517.16121481.56421499.60721428.413
25.0	21285.53721249.94021232.38521267.98221161.19121196.78821196.78821071.95521071.95521071.955
27.5	20893.97020893.97020858.37320858.37320769.62520769.62520734.02820662.83420645.27920627.237
30.0	20396.58820396.58820378.54520360.99120236.64520254.20020236.64520147.89620129.85420076.702
32.5	19774.85919792.90219792.90219721.70819651.00119633.44719597.85019509.10119455.94919420.352
35.0	19030.73619013.18119048.77818995.62718871.76918871.76918854.21418783.50818730.35618694.759
37.5	18182.74718147.15018112.04118094.48618058.88917970.62817970.62817900.41017829.70317777.039
40.0	17107.52317089.96917089.96917037.30516967.08616949.53116949.53116879.31216809.09416720.833
42.5	15949.40215879.18315861.62915826.51915773.85515756.30115756.30115651.46015564.17415511.510
45.0	14638.65314551.36714499.19014533.81214447.01414447.01414429.45914289.99714168.57714046.670
47.5	13057.26913005.58012988.02512988.02512918.78212884.16012814.91612659.36212503.80812365.809
50.0	11383.72211314.96711314.96711297.89911246.21111160.38811074.56510902.91910714.20610560.115
52.5	9638.007 9620.940 9586.806 9552.672 9501.471 9382.489 9246.440 9008.477 8855.361 8685.666
55.0	7805.981 7772.335 7772.335 7738.688 7637.261 7519.742 7368.089 7216.436 7031.625 6897.039
57.5	5911.051 5865.214 5819.376 5774.027 5683.328 5548.742 5348.813 5174.242 4937.254 4789.502
60.0	4115.110 4056.106 4056.106 3997.103 3938.588 3784.009 3669.416 3519.226 3408.046 3279.799
62.5	2785.830 2768.763 2751.696 2700.495 2666.848 2582.976 2516.658 2434.737 2353.302 2236.271
65.0	1961.248 2007.085 1961.248 1961.248 1900.294 1869.573 1823.736 1762.782 1701.829 1640.387
67.5	1221.513 1283.930 1346.834 1346.834 1378.042 1346.834 1378.042 1346.834 1300.022 1237.117
70.0	769.480 802.639 851.890 901.140 965.995 982.087 1014.270 1014.270 1014.270 982.087
72.5	533.955 568.089 568.089 619.290 619.290 703.162 719.742 819.218 819.218 786.060
75.0	360.846 378.401 413.510 448.132 430.577 482.754 499.821 568.089 619.290 635.870
77.5	218.946 290.627 290.627 290.627 343.292 325.737 343.292 395.956 448.132 482.754
80.0	128.734 146.777 146.777 164.819 182.861 218.946 236.988 236.988 290.627 290.627
82.5	37.060 55.590 55.590 74.120 74.120 74.120 110.692 110.692 146.777 164.819
85.0	0.000 0.000 0.000 0.000 0.000 37.060 37.060 55.590 55.590 74.120
87.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
90.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

Vert. Horizontal Angles

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0.0	22824.49722824.49722824.49722824.49722824.49722824.49722824.49722824.49722824.497									
2.5	22498.76122498.76122534.35822534.35822516.31522534.35822534.35822498.76122498.76122516.315									
5.0	22480.71822498.76122498.76122516.31522516.31522516.31522498.76122498.76122480.71822445.121									
7.5	22445.12122445.12122427.07922445.12122498.76122445.12122427.07922445.12122445.12122409.037									
10.0	22302.24622302.24622302.24622355.88522409.03722355.88522302.24622302.24622302.24622266.649									
12.5	22213.00922213.00922194.96722266.64922266.64922266.64922194.96722213.00922213.00922176.925									
15.0	22052.09122052.09122070.13422141.32822105.73122141.32822070.13422052.09122052.09122052.091									
17.5	21874.10721856.06421856.06421891.66121927.25821891.66121856.06421856.06421874.10721909.704									
20.0	21660.03721660.03721641.99521695.63421695.63421695.63421641.99521660.03721660.03721695.634									
22.5	21374.77321357.21921339.17621374.77321374.77321374.77321339.17621357.21921374.77321428.413									
25.0	21018.80420965.16420983.20721018.80420983.20721018.80420983.20720965.16421018.80421071.955									
27.5	20591.64020556.53020591.64020574.08520538.48820574.08520591.64020556.53020591.64020627.237									
30.0	20059.14819987.95420023.55120023.55119970.39920023.55120023.55119987.95420059.14820076.702									
32.5	19420.35219332.09119367.20119332.09119278.94019332.09119367.20119332.09119420.35219420.352									
35.0	18659.65018606.49818624.05318588.94318535.79218588.94318624.05318606.49818659.65018694.759									
37.5	17723.88817671.22417671.22417653.66917582.96317653.66917671.22417671.22417723.88817777.039									
40.0	16668.16916580.39516527.73116457.51316387.29416457.51316527.73116580.39516668.16916720.833									

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CANDELA TABULATION - (Cont.)

42.5	15354.00615232.09815161.88015074.59415022.41715074.59415161.88015232.09815354.00615511.510
45.0	13907.69513785.78813646.81313577.57013490.77213577.57013646.81313785.78813907.69514046.670
47.5	12210.25512089.81111951.81111830.87911779.19011830.87911951.81112089.81112210.25512365.809
50.0	10406.02410286.55510167.08610098.33010012.99410098.33010167.08610286.55510406.02410560.115
52.5	8550.104 8414.543 8313.116 8228.756 8178.043 8228.756 8313.116 8414.543 8550.104 8685.666
55.0	6729.294 6662.489 6520.101 6377.225 6306.519 6377.225 6520.101 6662.489 6729.294 6897.039
57.5	4663.693 4539.348 4416.465 4335.518 4315.038 4335.518 4416.465 4539.348 4663.693 4789.502
60.0	3135.461 3064.267 2994.048 2906.762 2889.208 2906.762 2994.048 3064.267 3135.461 3279.799
62.5	2175.317 2098.760 2068.039 2022.202 2007.085 2022.202 2068.039 2098.760 2175.317 2236.271
65.0	1548.225 1517.505 1470.692 1455.576 1408.763 1455.576 1470.692 1517.505 1548.225 1640.387
67.5	1189.817 1142.029 1126.425 1094.242 1078.638 1094.242 1126.425 1142.029 1189.817 1237.117
70.0	949.903 917.232 901.140 868.469 851.890 868.469 901.140 917.232 949.903 982.087
72.5	752.901 719.742 686.583 669.516 652.937 669.516 686.583 719.742 752.901 786.060
75.0	619.290 602.223 568.089 533.955 482.754 533.955 568.089 602.223 619.290 635.870
77.5	482.754 482.754 413.510 413.510 343.292 413.510 413.510 482.754 482.754 482.754
80.0	308.182 360.846 343.292 290.627 218.946 290.627 343.292 360.846 308.182 290.627
82.5	200.904 200.904 218.946 182.861 200.904 182.861 218.946 200.904 200.904 164.819
85.0	55.590 110.692 110.692 110.692 74.120 110.692 110.692 110.692 55.590 74.120
87.5	0.000 0.000 0.000 37.060 0.000 37.060 0.000 0.000 0.000 0.000
90.0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

Vert. Angles Horizontal Angles

	300	305	310	315	320	325	330	335	340	345
0.0	22824.49722824.									

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CANDELA TABULATION - (Cont.)

80.0	290.627	236.988	236.988	218.946	182.861	164.819	146.777	146.777	128.734	128.734
82.5	146.777	110.692	110.692	74.120	74.120	74.120	55.590	55.590	37.060	74.120
85.0	55.590	55.590	37.060	37.060	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>350</u>	<u>355</u>	<u>360</u>
0.0	22824.497	22824.497	22824.497
2.5	22427.079	22498.761	22427.079
5.0	22445.121	22516.315	22498.761
7.5	22391.482	22427.079	22427.079
10.0	22337.843	22337.843	22355.885
12.5	22266.649	22230.564	22302.246
15.0	22176.925	22105.731	22176.925
17.5	22016.495	21980.898	22052.091
20.0	21802.425	21731.231	21838.022
22.5	21552.758	21535.204	21641.995
25.0	21249.940	21249.940	21357.219
27.5	20929.567	20912.013	20965.164
30.0	20449.739	20467.294	20485.336
32.5	19863.608	19899.205	19916.760
35.0	19101.930	19155.082	19137.039
37.5	18252.966	18288.563	18252.966
40.0	17195.784	17248.448	17230.894
42.5	16036.688	16054.242	16036.688
45.0	14708.384	14708.384	14656.207
47.5	13109.445	13109.445	13074.823
50.0	11383.722	11400.789	11383.722
52.5	9603.873	9620.940	9569.739
55.0	7805.981	7840.115	7789.402
57.5	5933.969	5956.888	5933.969
60.0	4135.102	4135.102	4115.110
62.5	2768.763	2785.830	2785.830
65.0	1885.178	1900.294	1854.457
67.5	1142.029	1110.334	1126.425
70.0	752.901	719.742	719.742
72.5	516.888	516.888	516.888
75.0	360.846	360.846	378.401
77.5	255.030	272.585	255.030
80.0	110.692	146.777	164.819
82.5	37.060	55.590	92.162
85.0	0.000	0.000	18.530
87.5	0.000	0.000	0.000
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8400.72	N.A.	16.90
0-30	18144.78	N.A.	36.50
0-40	29884.81	N.A.	60.10
0-60	47219.82	N.A.	94.90
0-80	49669.05	N.A.	99.90
0-90	49740.12	N.A.	100.00
10-90	47596.83	N.A.	95.70
20-40	21484.09	N.A.	43.20
20-50	32366.39	N.A.	65.10
40-70	19248.03	N.A.	38.70
60-80	2449.18	N.A.	4.90
70-80	536.15	N.A.	1.10
80-90	71.12	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	49740.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2143.35
10-20	6257.37
20-30	9744.06
30-40	11740.03
40-50	10882.3
50-60	6452.71
60-70	1913.03
70-80	536.15
80-90	71.12
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

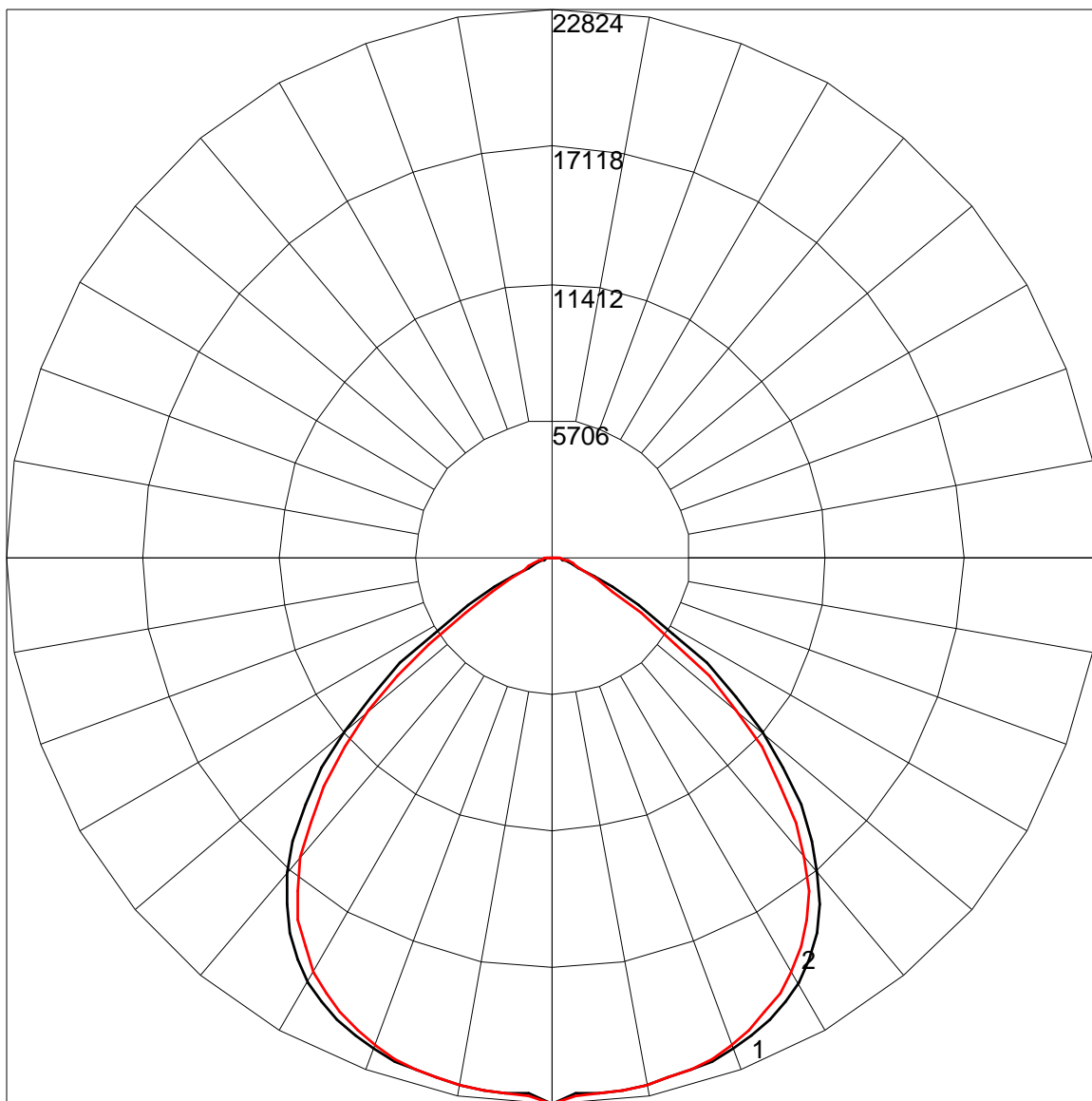
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	57	51	74	64	56	51	62	55	50	60	54	50	59	54	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32

POLAR GRAPH



Maximum Candela = 22824.497 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)