

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HZCAS35MHTHO5K.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST]

[TESTLAB] Standard-Tech Co. Ltd

[TESTDATE] 2017-11-15

[ISSUEDATE] 2017-11-15 22:42:59

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] HZCAS35MHTHO5K

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	99.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	5210.03	5210.03	5210.03	5210.03	5210.03	5210.03	5210.03	5210.03	5210.03	5210.03
1	5213.28	5213.30	5207.36	5208.95	5211.67	5208.93	5210.60	5210.04	5208.36	5202.78
2	5215.00	5212.85	5203.50	5208.38	5211.00	5208.93	5212.25	5211.10	5207.25	5194.94
3	5212.29	5209.57	5199.08	5206.20	5206.03	5208.80	5211.63	5209.43	5206.66	5186.68
4	5208.39	5200.76	5194.07	5202.33	5201.15	5204.44	5209.42	5207.78	5205.05	5179.59
5	5203.98	5185.98	5187.50	5194.65	5194.48	5200.44	5204.89	5204.42	5205.56	5171.19
6	5195.12	5170.97	5178.64	5184.71	5189.09	5192.85	5198.38	5201.16	5203.93	5161.97
7	5182.39	5154.95	5167.07	5173.67	5183.48	5184.96	5189.96	5197.22	5201.07	5152.45
8	5167.55	5139.54	5156.11	5162.72	5176.66	5174.91	5182.61	5193.17	5194.74	5145.13
9	5152.11	5126.89	5143.48	5149.03	5164.83	5166.26	5172.86	5185.04	5182.83	5135.96
10	5137.78	5114.28	5131.42	5134.77	5151.50	5157.89	5160.58	5172.81	5168.87	5127.07
11	5123.63	5100.74	5117.36	5118.45	5134.75	5147.84	5145.94	5159.81	5153.12	5115.92
12	5108.86	5088.70	5104.29	5101.02	5115.74	5139.31	5127.98	5140.78	5135.10	5106.16
13	5093.35	5076.00	5086.20	5085.03	5094.57	5126.69	5109.37	5118.22	5114.93	5099.30
14	5076.19	5063.21	5065.77	5067.40	5071.75	5110.83	5090.21	5094.18	5096.33	5087.85
15	5054.53	5044.94	5036.02	5047.51	5048.38	5091.85	5065.65	5071.85	5073.95	5068.90
16	5030.36	5023.75	5005.45	5023.48	5021.14	5067.75	5037.12	5045.58	5050.99	5044.45
17	5006.10	4997.45	4976.15	4994.88	4993.43	5039.08	5007.92	5018.62	5026.72	5020.31
18	4980.53	4967.64	4951.76	4963.56	4970.60	5006.92	4976.82	4989.14	4997.24	4995.24
19	4955.42	4932.56	4927.34	4928.04	4942.79	4975.08	4945.36	4956.02	4966.94	4966.12
20	4927.98	4900.10	4898.94	4894.51	4916.83	4946.80	4911.11	4920.59	4932.57	4934.56
21	4898.35	4870.95	4867.32	4866.16	4888.78	4915.23	4881.84	4885.24	4899.29	4901.49
22	4867.71	4843.36	4833.56	4838.93	4859.01	4882.50	4854.58	4852.04	4865.92	4868.83
23	4835.90	4809.62	4798.09	4811.63	4831.80	4851.27	4823.34	4820.79	4828.64	4834.39
24	4802.11	4770.39	4765.90	4778.47	4800.91	4812.93	4793.45	4788.04	4794.19	4800.08
25	4762.32	4732.25	4729.61	4742.24	4763.68	4769.02	4759.80	4749.00	4754.56	4761.66
26	4718.93	4694.91	4688.70	4702.50	4717.42	4724.77	4723.30	4708.07	4711.95	4718.57
27	4674.65	4659.54	4647.29	4656.69	4669.94	4680.65	4682.70	4665.40	4670.76	4672.25
28	4626.98	4623.11	4602.70	4614.56	4622.59	4641.16	4637.85	4619.43	4625.42	4629.10
29	4579.85	4584.51	4558.46	4570.52	4570.96	4599.23	4593.15	4577.57	4585.18	4589.55
30	4534.62	4538.92	4514.06	4525.03	4514.74	4550.32	4549.20	4532.45	4541.09	4551.01
31	4493.95	4489.48	4471.53	4476.48	4460.76	4502.04	4506.00	4488.72	4496.74	4506.37
32	4449.00	4434.56	4423.54	4425.18	4411.20	4446.10	4459.88	4442.69	4449.03	4458.20
33	4398.23	4380.02	4369.47	4377.45	4362.69	4393.12	4407.83	4392.78	4400.20	4406.30
34	4342.10	4323.77	4314.93	4328.23	4313.46	4342.36	4359.34	4340.36	4351.72	4346.21
35	4282.03	4266.07	4258.05	4275.16	4260.80	4287.86	4303.51	4285.45	4298.07	4282.87
36	4219.59	4203.30	4203.38	4215.84	4203.55	4236.69	4242.02	4229.25	4237.35	4219.94
37	4142.38	4138.04	4146.07	4144.93	4150.51	4181.03	4179.12	4171.87	4149.75	4155.91
38	4031.98	4081.49	4089.76	4085.22	4098.72	4123.70	4118.74	4105.43	4024.40	4093.62
39	3896.91	4020.69	4028.35	4029.87	4039.93	4058.49	4057.76	4020.05	3873.75	4018.75
40	3761.75	3933.70	3966.37	3964.65	3961.62	3991.03	3994.31	3891.37	3712.01	3913.98
41	3627.66	3810.80	3897.87	3893.34	3858.78	3927.00	3926.48	3741.90	3571.78	3776.70
42	3487.81	3675.62	3826.72	3808.62	3739.39	3854.95	3858.32	3591.03	3466.40	3626.20
43	3371.48	3548.35	3756.92	3707.08	3617.09	3758.59	3792.66	3445.91	3391.29	3476.23
44	3282.47	3406.53	3686.35	3589.81	3494.43	3640.01	3723.07	3336.32	3322.09	3344.70
45	3214.55	3274.18	3612.43	3474.18	3379.32	3511.64	3637.39	3255.71	3251.27	3249.47
46	3146.50	3161.43	3534.39	3353.40	3281.71	3391.51	3544.10	3184.42	3182.06	3174.59
47	3071.26	3078.20	3452.22	3238.96	3205.43	3271.98	3425.95	3106.38	3105.21	3097.05
48	2996.09	3003.08	3350.06	3143.30	3130.95	3178.39	3282.24	3028.35	3028.35	3019.52
49	2916.30	2933.38	3222.64	3066.32	3055.44	3084.80	3125.04	2950.34	2951.60	2942.08
50	2836.93	2861.92	3067.90	2988.08	2979.93	2991.22	2967.84	2873.86	2880.57	2869.38
51	2760.48	2785.20	2905.16	2908.31	2904.37	2897.75	2810.96	2800.43	2805.91	2793.61
52	2679.97	2697.93	2738.46	2823.30	2824.42	2817.06	2686.57	2723.68	2725.57	2718.53
53	2601.05	2620.40	2566.52	2749.18	2742.72	2736.64	2575.55	2644.76	2645.30	2642.68

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CANDELA TABULATION - (Cont.)

54	2524.71	2535.67	2420.70	2660.17	2660.15	2657.89	2460.61	2566.93	2564.72	2555.31
55	2452.29	2453.97	2307.67	2564.88	2572.53	2576.48	2349.44	2485.53	2479.94	2469.55
56	2373.84	2374.32	2218.86	2481.46	2482.31	2489.64	2244.23	2399.10	2393.82	2383.08
57	2292.87	2284.68	2129.98	2390.74	2403.12	2398.43	2152.49	2307.02	2295.83	2297.60
58	2210.47	2192.18	2047.38	2308.12	2311.14	2312.12	2071.70	2221.44	2134.36	2212.81
59	2122.62	2106.88	1962.92	2222.56	2213.50	2223.91	1983.47	2119.86	1938.21	2128.80
60	2030.12	2026.79	1871.21	2132.68	2115.91	2137.38	1898.14	1951.99	1811.49	2017.97
61	1917.23	1948.06	1784.70	2032.23	2016.80	2039.11	1811.11	1769.74	1726.45	1831.29
62	1762.09	1856.46	1701.88	1923.19	1913.79	1929.36	1725.90	1658.05	1644.40	1673.10
63	1630.27	1746.42	1618.70	1826.45	1780.15	1804.79	1642.14	1568.24	1560.27	1575.25
64	1498.55	1603.05	1533.21	1703.06	1624.53	1670.07	1551.74	1485.46	1472.17	1483.93
65	1366.82	1443.21	1447.66	1562.87	1516.55	1510.46	1457.32	1398.39	1391.01	1396.81
66	1282.65	1283.35	1363.23	1422.58	1421.97	1328.37	1317.90	1312.80	1308.58	1304.15
67	1194.88	1170.21	1274.72	1282.29	1325.06	1213.19	1168.31	1226.02	1210.50	1210.73
68	1104.03	1060.78	1185.00	1162.45	1224.71	1126.64	1072.39	1126.94	1031.01	1110.72
69	1001.93	962.05	1093.64	1045.77	1132.32	1038.24	986.42	986.95	902.96	1002.53
70	855.33	873.54	964.78	950.00	1045.07	954.77	903.43	810.31	824.55	826.82
71	748.28	781.90	798.78	863.38	943.25	867.81	818.42	724.94	759.04	720.54
72	675.31	647.00	702.70	773.49	805.37	786.43	711.84	651.16	689.36	655.50
73	601.89	571.33	626.32	654.85	720.37	677.66	626.74	583.49	584.30	592.52
74	479.24	506.97	554.27	579.46	643.63	587.97	505.62	499.56	475.30	521.17
75	411.66	424.39	483.86	512.29	560.52	520.26	432.36	397.01	418.62	403.68
76	347.18	342.03	382.92	446.34	453.83	445.83	377.86	347.22	352.91	351.59
77	257.15	292.19	301.03	358.45	386.73	342.54	318.24	288.04	255.48	301.55
78	212.76	213.54	255.96	301.82	324.15	277.26	226.20	210.69	216.99	217.06
79	152.89	168.48	192.64	242.05	248.63	231.62	187.20	169.41	146.31	173.59
80	104.72	119.82	147.98	180.48	200.75	174.84	147.11	113.74	106.19	118.14
81	68.63	82.77	109.28	134.87	149.09	129.92	104.05	73.49	71.54	81.21
82	55.05	56.01	77.26	99.47	107.29	94.34	70.16	46.57	44.77	54.43
83	45.55	45.63	53.27	68.88	74.62	66.47	46.40	36.50	35.94	38.39
84	33.90	35.73	37.25	47.05	47.95	44.63	31.67	28.38	27.98	29.84
85	27.09	26.79	28.18	30.27	29.27	27.90	23.07	20.76	20.90	21.94
86	18.68	19.26	19.60	21.01	21.17	19.11	15.98	15.12	14.66	16.00
87	13.73	12.49	12.51	13.85	14.38	12.11	9.51	7.20	7.08	8.33
88	9.62	10.11	7.70	5.97	5.79	4.82	3.71	4.62	5.24	4.82
89	1.74	1.79	2.49	2.38	1.76	2.02	2.62	2.96	3.06	3.45
90	1.38	1.48	1.70	1.99	1.51	1.43	1.32	1.27	1.07	1.12
91	1.37	1.47	1.67	1.93	1.42	1.47	1.32	1.22	1.07	1.12
92	1.33	1.32	1.57	1.88	1.42	1.42	1.27	1.22	1.02	1.07
93	1.32	1.32	1.57	1.87	1.42	1.42	1.27	1.22	1.12	1.12
94	1.27	1.27	1.52	1.82	1.47	1.48	1.32	1.27	1.12	1.12
95	1.27	1.32	1.57	1.82	1.62	1.53	1.38	1.32	1.17	1.12
96	1.27	1.32	1.57	1.87	1.67	1.63	1.48	1.32	1.22	1.17
97	1.37	1.42	1.67	1.87	1.67	1.63	1.53	1.48	1.18	1.27
98	1.62	1.52	1.82	2.22	1.82	1.73	1.53	1.53	1.38	1.42
99	1.63	1.62	1.92	2.38	1.97	1.88	1.73	1.63	1.48	1.62
100	1.63	1.77	2.27	2.58	2.13	2.04	1.89	1.78	1.63	1.63
101	1.83	1.93	2.38	2.78	2.33	2.24	2.03	1.93	1.73	1.83
102	1.93	2.23	2.43	3.08	2.38	2.45	1.99	1.89	1.94	1.93
103	2.33	2.33	2.78	3.39	2.64	2.65	2.25	2.14	1.99	2.08
104	2.34	2.59	2.84	3.49	2.84	2.75	2.49	2.19	2.19	2.08
105	2.64	2.83	3.13	3.69	3.08	2.95	2.55	2.49	2.29	2.18
106	3.00	3.04	3.39	3.90	3.29	3.20	2.85	2.65	2.49	2.49
107	3.16	3.19	3.55	4.29	3.44	3.31	3.05	2.75	2.55	2.59
108	3.46	3.30	3.84	4.60	3.69	3.56	3.05	3.05	2.85	2.74
109	3.56	3.75	4.00	4.81	3.95	3.77	3.16	3.21	3.11	2.95

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CANDELA TABULATION - (Cont.)

110	4.01	3.90	4.15	4.96	4.15	3.92	3.26	3.31	3.36	3.15
111	4.07	3.96	4.46	5.27	4.30	4.07	3.51	3.51	3.46	3.25
112	4.27	4.01	4.75	5.61	4.45	4.37	3.77	3.66	3.67	3.50
113	4.33	4.11	5.11	5.92	4.55	4.53	3.97	3.71	3.82	3.55
114	4.58	4.46	5.52	6.23	4.91	4.73	4.13	3.81	3.97	3.70
115	4.83	4.46	5.72	6.48	5.01	4.99	4.53	3.76	4.13	3.76
116	4.94	4.46	5.98	6.79	5.26	5.14	4.63	3.76	4.38	3.80
117	5.04	4.46	6.37	7.18	5.37	5.29	4.99	3.81	4.54	3.76
118	5.09	4.46	6.68	7.29	5.56	5.39	5.14	4.07	4.84	4.06
119	5.39	5.01	7.03	7.54	5.77	5.54	5.40	4.38	4.79	4.47
120	5.85	5.67	7.24	7.70	6.02	5.69	5.60	5.03	5.04	4.87
121	6.51	6.18	7.44	7.95	6.22	5.85	5.70	5.50	5.25	5.23
122	7.26	6.68	7.55	8.10	6.32	6.00	5.70	5.70	5.67	5.34
123	8.04	7.25	7.65	8.56	6.42	6.15	5.85	5.95	6.26	5.78
124	8.34	7.85	7.75	8.81	6.47	6.31	5.85	6.05	6.52	5.84
125	8.80	8.11	7.75	9.02	6.52	6.51	5.95	6.20	6.62	6.09
126	8.96	8.52	7.85	9.27	6.78	6.77	6.11	6.31	6.82	6.29
127	9.06	8.82	7.90	9.47	7.19	6.97	6.16	6.46	6.93	6.40
128	9.31	9.08	7.95	9.62	7.38	7.17	6.31	6.81	7.13	6.75
129	9.56	9.18	8.05	9.58	7.69	7.22	6.46	7.02	7.34	6.90
130	9.72	9.33	8.10	9.63	7.89	7.32	6.51	7.07	7.54	7.05
131	9.67	9.59	8.05	9.63	7.99	7.32	6.61	7.48	7.69	7.31
132	9.77	9.69	8.20	9.63	8.00	7.32	6.61	7.79	7.74	7.62
133	9.77	9.79	8.26	9.63	8.25	7.33	6.61	8.04	7.84	7.87
134	10.07	9.94	8.36	9.63	8.50	7.68	6.61	8.18	8.00	8.12
135	10.38	10.14	8.51	9.68	8.60	7.94	6.61	8.14	8.25	8.17
136	10.53	10.44	8.61	9.78	8.80	8.09	6.62	8.29	8.45	8.17
137	10.54	10.50	8.56	9.83	8.90	8.34	6.67	8.49	8.66	8.17
138	10.64	10.60	8.61	9.88	8.95	8.64	6.77	8.64	8.81	8.17
139	10.59	10.70	8.36	10.03	8.95	8.80	6.97	8.75	8.92	8.27
140	10.59	10.75	8.16	10.13	9.05	8.90	7.02	9.00	9.22	8.53
141	10.54	10.71	7.96	10.13	9.35	8.90	7.18	9.31	9.42	8.84
142	10.34	10.70	7.80	10.13	9.46	8.90	7.23	9.61	9.57	9.18
143	9.98	10.70	7.75	10.13	9.81	8.90	7.43	9.77	9.62	9.64
144	9.88	10.70	7.80	10.08	9.86	9.10	7.58	10.12	9.58	9.85
145	10.23	10.81	8.05	10.08	10.06	9.15	7.74	10.23	9.84	10.10
146	10.93	10.86	8.30	10.08	10.17	9.30	8.00	10.57	10.66	10.46
147	11.20	11.01	8.86	10.08	10.32	9.36	8.36	10.52	11.15	10.76
148	11.30	11.06	9.11	10.08	10.36	9.61	8.86	10.53	11.35	10.81
149	11.45	11.21	9.37	10.08	10.36	9.76	9.32	10.57	11.40	11.16
150	11.45	11.21	9.76	10.23	10.36	9.86	9.77	10.47	11.50	11.21
151	11.45	11.26	9.93	10.28	10.21	10.01	9.87	10.47	11.50	11.26
152	11.60	11.31	10.43	10.49	10.21	10.02	9.87	10.47	11.50	11.21
153	11.71	11.36	10.68	10.64	10.16	10.17	9.87	10.47	11.45	11.21
154	11.86	11.31	11.14	10.64	10.01	10.17	9.92	10.47	11.35	11.21
155	11.81	11.31	11.19	10.79	9.66	10.17	9.87	10.42	11.25	11.11
156	11.86	11.31	11.49	10.79	9.61	10.17	9.82	10.42	10.94	10.70
157	11.81	11.31	11.85	10.94	9.56	10.17	9.82	10.37	10.69	7.92
158	11.51	11.31	12.10	10.89	9.56	10.17	9.82	10.27	10.69	10.45
159	11.25	11.36	12.16	10.89	9.61	10.01	9.82	10.27	10.74	10.50
160	11.20	11.41	12.31	10.89	9.86	9.86	9.92	10.32	10.74	10.60
161	11.10	11.36	12.36	10.94	10.21	9.71	9.97	10.38	10.74	10.76
162	11.10	11.36	12.46	10.74	10.47	9.66	9.97	10.48	10.74	10.81
163	11.05	11.36	12.46	10.64	10.62	9.71	10.08	10.63	10.74	10.81
164	11.05	11.36	12.46	10.54	10.72	9.76	10.28	10.63	10.74	10.81
165	11.00	11.41	12.46	10.39	10.82	9.87	10.33	10.73	10.74	10.86

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CANDELA TABULATION - (Cont.)

166	11.00	11.36	12.51	10.34	10.92	10.28	10.33	10.88	10.79	10.86
167	11.00	12.01	12.76	10.34	11.28	10.98	10.43	11.24	10.89	11.19
168	11.90	12.58	13.47	10.54	11.63	11.34	11.05	11.92	11.43	11.94
169	12.65	12.88	13.63	10.69	11.68	11.50	11.46	12.72	12.39	12.54
170	13.27	13.09	13.73	10.69	12.09	11.86	12.02	13.13	13.10	13.10
171	13.84	13.19	13.93	11.14	12.54	12.51	12.58	13.58	13.75	13.71
172	14.40	13.49	14.08	11.30	12.54	12.66	12.92	13.78	13.79	14.26
173	14.61	13.49	14.28	11.25	12.54	12.61	12.87	13.78	13.75	14.51
174	14.56	13.49	14.29	11.30	12.64	12.71	12.87	13.83	13.79	14.51
175	14.81	13.49	14.34	11.50	12.69	12.71	12.87	13.73	13.74	14.51
176	14.81	13.49	14.43	11.70	12.69	12.66	12.77	13.78	13.64	14.56
177	14.97	13.55	14.34	11.70	12.44	12.55	12.66	13.46	13.54	14.51
178	14.97	13.35	14.14	11.70	12.08	12.29	12.46	13.07	13.24	14.36
179	14.81	13.24	13.93	11.50	11.63	11.99	12.42	13.07	13.24	14.41
180	14.67	14.67	14.67	14.67	14.67	14.67	14.67	14.67	14.67	14.67

Vert. Angles Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	5210.03	5210.03	5210.03	5210.03	5210.03	5210.03	5210.03
1	5207.81	5211.09	5206.80	5210.58	5209.49	5212.19	5213.28
2	5205.63	5208.22	5202.39	5208.95	5209.48	5211.70	5215.00
3	5202.19	5202.07	5195.77	5206.19	5209.48	5208.41	5212.29
4	5197.30	5192.86	5186.38	5196.79	5207.27	5203.41	5208.39
5	5191.69	5186.76	5179.79	5186.84	5204.51	5199.01	5203.98
6	5184.64	5182.42	5173.68	5179.05	5197.86	5194.00	5195.12
7	5174.53	5175.09	5165.99	5172.42	5187.92	5187.91	5182.39
8	5163.87	5164.48	5156.16	5163.09	5178.57	5176.41	5167.55
9	5151.48	5154.74	5142.51	5153.18	5168.65	5161.58	5152.11
10	5138.73	5136.48	5126.69	5142.22	5153.90	5143.46	5137.78
11	5124.21	5118.60	5109.22	5132.00	5135.85	5126.43	5123.63
12	5109.08	5100.11	5092.37	5122.16	5117.26	5107.36	5108.86
13	5092.19	5079.43	5073.28	5113.30	5094.67	5089.60	5093.35
14	5074.75	5059.81	5055.02	5100.54	5069.77	5071.82	5076.19
15	5054.17	5035.41	5031.78	5082.28	5044.68	5053.54	5054.53
16	5029.11	5014.22	5006.26	5058.83	5021.01	5028.37	5030.36
17	5002.81	4990.85	4980.97	5032.43	4998.37	5000.27	5006.10
18	4974.59	4970.05	4955.03	5003.10	4973.43	4972.54	4980.53
19	4947.79	4942.19	4931.16	4970.78	4946.64	4940.80	4955.42
20	4920.58	4913.36	4902.27	4938.85	4916.51	4908.32	4927.98
21	4886.42	4879.77	4873.77	4910.17	4885.21	4877.66	4898.35
22	4851.59	4846.03	4840.77	4879.35	4854.04	4850.88	4867.71
23	4814.45	4813.34	4800.63	4844.89	4822.78	4817.00	4835.90
24	4776.41	4779.77	4757.49	4805.91	4791.72	4777.68	4802.11
25	4739.14	4746.80	4716.77	4762.31	4757.60	4734.08	4762.32
26	4702.85	4709.31	4675.90	4717.98	4716.46	4695.53	4718.93
27	4666.00	4665.64	4637.28	4677.52	4673.79	4660.58	4674.65
28	4628.84	4617.04	4598.59	4636.98	4627.79	4624.97	4626.98
29	4589.30	4569.16	4559.06	4592.84	4578.56	4584.76	4579.85
30	4549.32	4521.08	4519.61	4545.43	4527.85	4541.79	4534.62
31	4502.51	4472.44	4477.76	4503.70	4478.35	4496.38	4493.95
32	4450.53	4418.28	4432.01	4459.46	4427.91	4446.68	4449.00
33	4395.24	4363.67	4381.13	4413.19	4378.70	4390.88	4398.23
34	4340.83	4308.78	4327.77	4361.16	4328.79	4332.87	4342.10
35	4286.13	4257.32	4277.55	4297.43	4278.48	4276.25	4282.03
36	4234.14	4210.90	4223.85	4236.84	4226.11	4216.68	4219.59

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CANDELA TABULATION - (Cont.)

37	4175.28	4157.20	4161.95	4180.13	4161.70	4156.18	4142.38
38	4112.96	4105.14	4100.15	4124.04	4095.96	4092.24	4031.98
39	4046.52	4043.94	4039.54	4064.20	4031.92	4013.53	3896.91
40	3978.77	3984.85	3977.37	4001.17	3970.34	3905.75	3761.75
41	3910.53	3921.44	3908.43	3937.50	3907.58	3775.36	3627.66
42	3842.05	3855.02	3814.92	3861.49	3843.43	3642.02	3487.81
43	3773.42	3780.30	3707.42	3788.59	3776.41	3514.15	3371.48
44	3702.11	3692.03	3588.65	3707.47	3701.96	3377.93	3282.47
45	3626.91	3584.31	3462.72	3600.97	3625.46	3256.97	3214.55
46	3545.53	3468.80	3347.39	3476.18	3536.95	3164.12	3146.50
47	3450.91	3342.51	3242.97	3345.98	3424.29	3090.68	3071.26
48	3332.79	3225.37	3155.05	3225.50	3294.15	3018.58	2996.09
49	3183.61	3125.30	3079.51	3107.21	3154.87	2937.26	2916.30
50	3034.42	3025.24	2997.19	3019.56	3021.03	2854.44	2836.93
51	2885.19	2925.35	2910.23	2940.35	2884.86	2780.29	2760.48
52	2731.30	2843.24	2830.17	2860.79	2746.87	2698.04	2679.97
53	2594.97	2758.18	2757.94	2779.72	2621.99	2608.44	2601.05
54	2469.95	2675.47	2677.66	2697.40	2515.32	2522.40	2524.71
55	2350.81	2588.76	2593.35	2603.48	2403.85	2446.74	2452.29
56	2245.51	2503.85	2508.76	2510.80	2281.48	2360.06	2373.84
57	2156.65	2418.55	2423.81	2417.82	2172.36	2270.85	2292.87
58	2072.08	2331.74	2332.95	2334.05	2074.41	2186.87	2210.47
59	1985.18	2236.47	2240.24	2250.36	1976.88	2105.68	2122.62
60	1900.90	2144.14	2145.36	2153.43	1890.53	2018.74	2030.12
61	1812.13	2045.33	2045.22	2054.65	1804.12	1935.91	1917.23
62	1724.71	1948.14	1941.37	1957.14	1718.18	1843.16	1762.09
63	1637.97	1845.45	1836.24	1841.21	1628.68	1718.09	1630.27
64	1558.57	1736.06	1678.26	1713.31	1547.98	1576.81	1498.55
65	1477.46	1609.32	1566.66	1554.56	1467.52	1435.06	1366.82
66	1384.54	1431.85	1455.49	1395.62	1382.16	1293.30	1282.65
67	1260.09	1274.39	1344.32	1236.68	1290.27	1206.79	1194.88
68	1100.06	1152.20	1246.92	1134.01	1190.96	1114.11	1104.03
69	992.95	1050.42	1148.81	1048.12	1067.58	1023.32	1001.93
70	912.81	969.66	1057.59	957.86	919.63	919.98	855.33
71	809.98	881.34	972.96	873.28	813.65	764.22	748.28
72	711.90	799.04	830.10	795.52	709.25	642.71	675.31
73	638.24	694.21	730.98	695.55	631.47	574.52	601.89
74	565.56	596.00	653.29	592.07	559.02	509.60	479.24
75	447.19	527.27	575.35	523.41	457.97	401.85	411.66
76	386.86	461.15	473.54	456.71	379.19	343.34	347.18
77	320.57	377.92	401.77	375.87	314.17	283.26	257.15
78	257.65	298.89	335.29	303.96	242.55	213.83	212.76
79	193.76	238.48	260.14	238.04	190.55	166.06	152.89
80	156.38	184.90	211.87	182.67	143.51	119.90	104.72
81	111.10	144.34	156.02	140.62	109.55	83.00	68.63
82	83.25	104.31	114.30	100.58	76.64	56.54	55.05
83	56.54	72.58	80.04	72.39	53.41	46.55	45.55
84	35.73	49.28	51.04	48.29	38.26	35.69	33.90
85	24.94	31.42	31.75	32.15	28.74	27.41	27.09
86	17.46	21.58	22.80	22.14	19.94	19.13	18.68
87	11.17	13.88	15.74	14.15	12.22	12.95	13.73
88	4.55	6.22	6.50	6.35	8.09	9.64	9.62
89	2.76	2.12	2.37	2.53	2.40	1.92	1.74
90	1.51	1.57	1.98	2.05	1.85	1.58	1.38
91	1.27	1.57	1.87	1.83	1.68	1.48	1.37
92	1.27	1.52	1.82	1.83	1.63	1.38	1.33

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CANDELA TABULATION - (Cont.)

93	1.27	1.52	1.82	1.83	1.58	1.37	1.32
94	1.27	1.57	1.82	1.78	1.58	1.37	1.27
95	1.42	1.62	1.82	1.78	1.58	1.37	1.27
96	1.42	1.67	1.82	1.83	1.58	1.42	1.27
97	1.57	1.68	1.87	1.78	1.73	1.42	1.37
98	1.67	1.88	2.02	2.08	1.83	1.52	1.62
99	1.72	1.98	2.27	2.39	2.23	1.68	1.63
100	1.88	2.13	2.52	2.54	2.24	1.83	1.63
101	1.98	2.33	2.68	2.84	2.34	2.08	1.83
102	2.13	2.48	2.97	3.09	2.54	2.18	1.93
103	2.28	2.59	3.23	3.20	2.74	2.44	2.33
104	2.23	2.89	3.54	3.46	3.10	2.59	2.34
105	2.58	3.14	3.83	3.85	3.25	2.99	2.64
106	2.69	3.24	4.04	4.01	3.31	3.15	3.00
107	2.89	3.40	4.35	4.17	3.65	3.46	3.16
108	3.04	3.75	4.65	4.52	3.71	3.66	3.46
109	3.25	3.71	4.80	4.78	4.02	3.76	3.56
110	3.39	4.21	5.00	4.93	4.27	3.91	4.01
111	3.50	4.36	5.51	5.23	4.48	4.02	4.07
112	3.55	4.51	5.61	5.59	4.82	4.07	4.27
113	3.85	4.61	5.71	5.69	5.14	4.12	4.33
114	4.11	4.81	5.81	6.20	5.54	4.22	4.58
115	4.26	4.87	6.11	6.40	6.00	4.52	4.83
116	4.36	5.07	6.37	6.61	6.26	4.47	4.94
117	4.62	5.22	6.67	6.90	6.55	4.52	5.04
118	4.92	5.37	7.12	7.17	7.02	4.48	5.09
119	5.12	5.37	7.37	7.51	7.27	5.51	5.39
120	5.27	5.57	7.63	7.72	7.58	6.34	5.85
121	5.47	5.68	7.98	7.98	7.83	7.01	6.51
122	5.48	5.83	8.24	8.23	7.93	7.21	7.26
123	5.67	5.93	8.69	8.64	8.09	7.72	8.04
124	5.73	6.08	8.84	8.84	8.04	8.02	8.34
125	5.78	6.28	9.05	9.15	8.04	8.28	8.80
126	5.83	6.54	9.40	9.50	7.99	8.54	8.96
127	5.93	6.84	9.60	9.70	7.99	8.84	9.06
128	6.18	6.84	9.81	9.71	8.29	8.95	9.31
129	6.33	7.10	9.96	9.71	10.08	9.25	9.56
130	6.39	7.30	10.11	9.76	8.37	9.56	9.72
131	6.64	7.45	10.16	9.76	8.09	9.66	9.67
132	6.69	7.60	10.36	9.76	8.14	9.86	9.77
133	6.84	7.75	10.47	9.86	8.09	9.91	9.77
134	6.89	7.81	10.52	9.91	8.29	10.11	10.07
135	6.94	7.91	10.72	9.91	8.34	10.32	10.38
136	6.94	8.06	10.92	9.96	8.45	10.47	10.53
137	6.94	8.21	10.97	10.11	8.60	10.52	10.54
138	6.99	8.41	10.92	10.31	8.84	10.62	10.64
139	6.99	8.51	10.92	10.52	8.85	10.93	10.59
140	7.09	8.61	10.92	10.57	8.95	11.23	10.59
141	7.30	8.77	10.92	10.57	8.95	11.24	10.54
142	7.40	8.87	10.92	10.57	9.11	11.34	10.34
143	7.45	8.87	11.07	10.18	9.46	11.39	9.98
144	7.81	8.92	11.27	9.97	9.71	11.39	9.88
145	8.06	9.02	11.22	9.81	9.92	11.39	10.23
146	8.37	9.23	11.27	9.71	10.22	11.39	10.93
147	8.83	9.48	11.27	9.71	10.48	11.39	11.20
148	9.33	9.63	11.27	9.71	10.78	11.34	11.30

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CANDELA TABULATION - (Cont.)

149	9.93	9.83	11.27	9.61	11.19	11.34	11.45
150	10.49	9.78	11.27	9.66	11.39	11.34	11.45
151	10.94	9.78	11.27	9.66	11.75	11.39	11.45
152	10.89	9.78	11.27	9.81	11.95	11.44	11.60
153	10.89	9.78	11.27	9.86	12.25	11.69	11.71
154	10.79	9.78	10.92	10.06	12.31	11.80	11.86
155	10.38	9.78	10.82	10.26	12.26	11.85	11.81
156	10.33	9.78	10.62	10.42	12.31	11.90	11.86
157	10.28	9.78	10.62	10.52	12.36	11.80	11.81
158	10.28	9.78	10.57	10.52	12.36	11.75	11.51
159	10.28	9.83	10.57	10.57	12.36	11.59	11.25
160	10.28	9.88	10.72	10.67	12.36	11.54	11.20
161	10.28	9.99	10.82	10.73	12.36	11.54	11.10
162	10.29	10.19	10.82	10.87	12.41	11.59	11.10
163	10.39	10.44	11.02	10.88	12.41	11.49	11.05
164	10.49	10.59	11.02	10.98	12.46	11.14	11.05
165	10.44	10.74	11.02	11.03	12.56	10.64	11.00
166	10.49	10.74	11.07	11.18	12.77	10.32	11.00
167	11.01	11.10	11.32	11.23	12.92	10.62	11.00
168	11.71	11.88	11.53	11.59	13.63	11.78	11.90
169	12.17	12.68	11.58	11.69	13.93	12.63	12.65
170	12.52	13.08	11.58	11.79	13.89	13.16	13.27
171	12.97	13.53	11.98	12.10	13.89	13.42	13.84
172	13.17	13.83	12.03	12.25	14.04	13.72	14.40
173	13.12	13.83	12.18	12.30	14.09	13.73	14.61
174	13.12	13.83	12.14	12.35	14.14	13.73	14.56
175	13.12	13.83	12.24	12.85	14.50	13.73	14.81
176	13.12	13.73	12.33	13.01	14.50	13.73	14.81
177	12.92	13.68	12.29	12.96	14.30	13.73	14.97
178	12.87	13.58	11.89	12.96	14.05	13.78	14.97
179	12.87	13.53	11.73	13.01	13.79	13.58	14.81
180	14.67	14.67	14.67	14.67	14.67	14.67	14.67

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1921.39	N.A.	14.00
0-30	4110.1	N.A.	30.00
0-40	6782.23	N.A.	49.50
0-60	11656.92	N.A.	85.00
0-80	13627.46	N.A.	99.40
0-90	13673.6	N.A.	99.70
10-90	13179.38	N.A.	96.10
20-40	4860.84	N.A.	35.40
20-50	7515.88	N.A.	54.80
40-70	6328.26	N.A.	46.20
60-80	1970.54	N.A.	14.40
70-80	516.97	N.A.	3.80
80-90	46.14	N.A.	0.30
90-110	4.86	N.A.	0.00
90-120	9.79	N.A.	0.10
90-130	16.37	N.A.	0.10
90-150	29.32	N.A.	0.20
90-180	38.73	N.A.	0.30
110-180	33.87	N.A.	0.20
0-180	13712.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	494.22
10-20	1427.17
20-30	2188.71
30-40	2672.13
40-50	2655.04
50-60	2219.65
60-70	1453.57
70-80	516.97
80-90	46.14
90-100	1.72
100-110	3.14
110-120	4.93
120-130	6.58
130-140	6.78
140-150	6.17
150-160	4.98
160-170	3.17
170-180	1.26

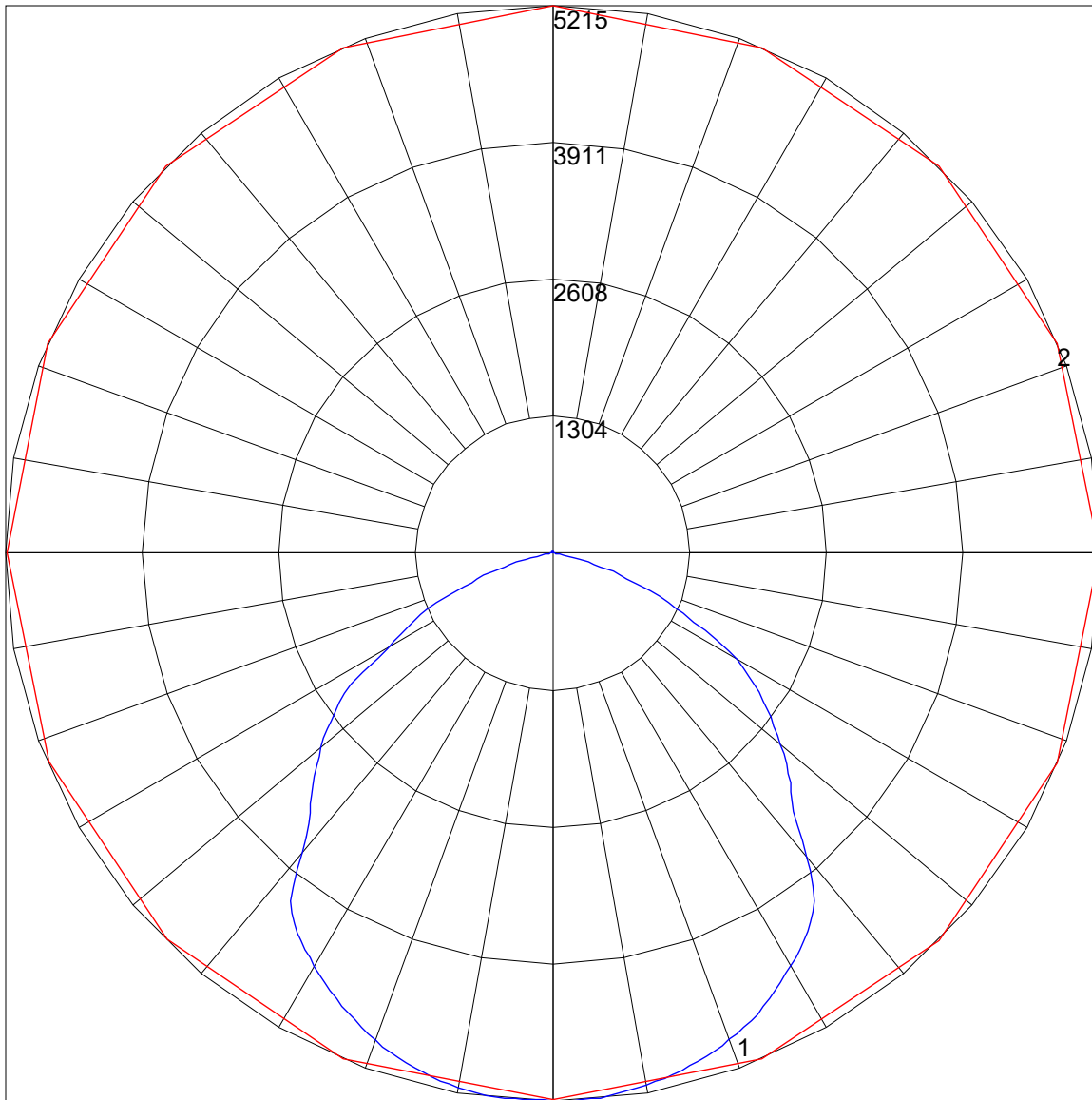
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 5215 Located At Horizontal Angle = 0, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)