



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 390440-3546 (2022).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 19911

[MANUFAC]

[TESTLAB]

[ISSUE DATE]

[LUMCAT]390440-3546

[LUMINAIRE]WITH WHITE INTERIOR AND CLEAR FLAT GLASS LENS

[LAMP]FOUR PHILIPS 32 WATT T8 LAMPS

[LAMPCAT]F32T8/TL850. LUMEN RATING = 2600 LMS.

[OTHER]ONE ADVANCE ICN-4P32-SC-HAZ BALLAST OPERATING AT 120 VAC AND 101 WATTS

CHARACTERISTICS

Lumens Per Lamp	2600 (4 lamps)
Total Lamp Lumens	10400
Luminaire Lumens	5679
Total Luminaire Efficiency	55 %
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	101
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.03 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4652	5211	5393
55	4338	5054	5201
65	3713	4543	4842
75	2461	3389	3043
85	574	1006	1060

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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>
0.0	1902.515	1902.515	1902.515	1902.515	1902.515
2.5	1897.293	1895.345	1905.243	1909.218	1907.581
5.0	1891.838	1891.136	1903.762	1910.153	1910.153
7.5	1882.329	1884.433	1899.865	1910.387	1910.543
10.0	1868.767	1874.223	1895.033	1908.673	1911.245
12.5	1851.153	1860.116	1886.460	1905.165	1909.764
15.0	1829.719	1842.813	1875.158	1897.839	1903.996
17.5	1804.389	1822.003	1860.350	1887.473	1896.202
20.0	1775.006	1797.140	1841.410	1873.833	1883.264
22.5	1741.491	1768.614	1819.977	1855.284	1866.819
25.0	1704.080	1736.347	1794.335	1834.006	1846.866
27.5	1662.304	1700.651	1763.938	1807.429	1819.665
30.0	1615.930	1660.200	1729.099	1773.369	1782.254
32.5	1566.282	1615.384	1689.817	1730.736	1738.608
35.0	1512.582	1567.140	1646.638	1681.244	1689.349
37.5	1455.140	1515.777	1595.666	1628.011	1638.299
40.0	1393.801	1460.206	1540.172	1572.050	1583.351
42.5	1329.111	1401.283	1478.444	1512.971	1525.052
45.0	1260.368	1338.152	1411.571	1450.074	1461.063
47.5	1189.053	1270.812	1341.737	1381.486	1390.450
50.0	1113.217	1199.808	1268.473	1307.132	1315.082
52.5	1034.887	1125.765	1192.404	1226.230	1230.595
55.0	953.206	1046.734	1110.567	1138.781	1142.990
57.5	867.940	963.027	1024.054	1045.565	1049.930
60.0	781.271	874.721	932.630	951.336	960.377
62.5	691.873	782.518	834.815	859.522	879.241
65.0	601.151	688.444	735.520	776.828	783.921
67.5	509.026	593.669	634.120	674.259	665.919
70.0	417.291	497.725	542.384	551.971	537.708
72.5	328.361	400.456	447.454	428.670	415.264
75.0	244.030	306.382	335.999	313.319	301.784
77.5	167.805	218.154	229.611	211.217	204.125
80.0	102.491	146.605	139.279	133.745	132.264
82.5	51.752	79.031	74.511	77.005	77.472
85.0	19.173	30.552	33.592	35.930	35.385
87.5	4.287	7.638	9.976	12.159	13.016
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	709.93	6.80	12.50
0-30	1532.88	14.70	27.00
0-40	2548.58	24.50	44.90
0-60	4588.17	44.10	80.80
0-80	5629.59	54.10	99.10
0-90	5679.15	54.60	100.00
10-90	5497.95	52.90	96.80
20-40	1838.65	17.70	32.40
20-50	2909.85	28.00	51.20
40-70	2750.26	26.40	48.40
60-80	1041.42	10.00	18.30
70-80	330.75	3.20	5.80
80-90	49.56	0.50	0.90
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	5679.15	54.60	100.00

Total Luminaire Efficiency = 54.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	181.20
10-20	528.73
20-30	822.95
30-40	1015.7
40-50	1071.2
50-60	968.39
60-70	710.67
70-80	330.75
80-90	49.56
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

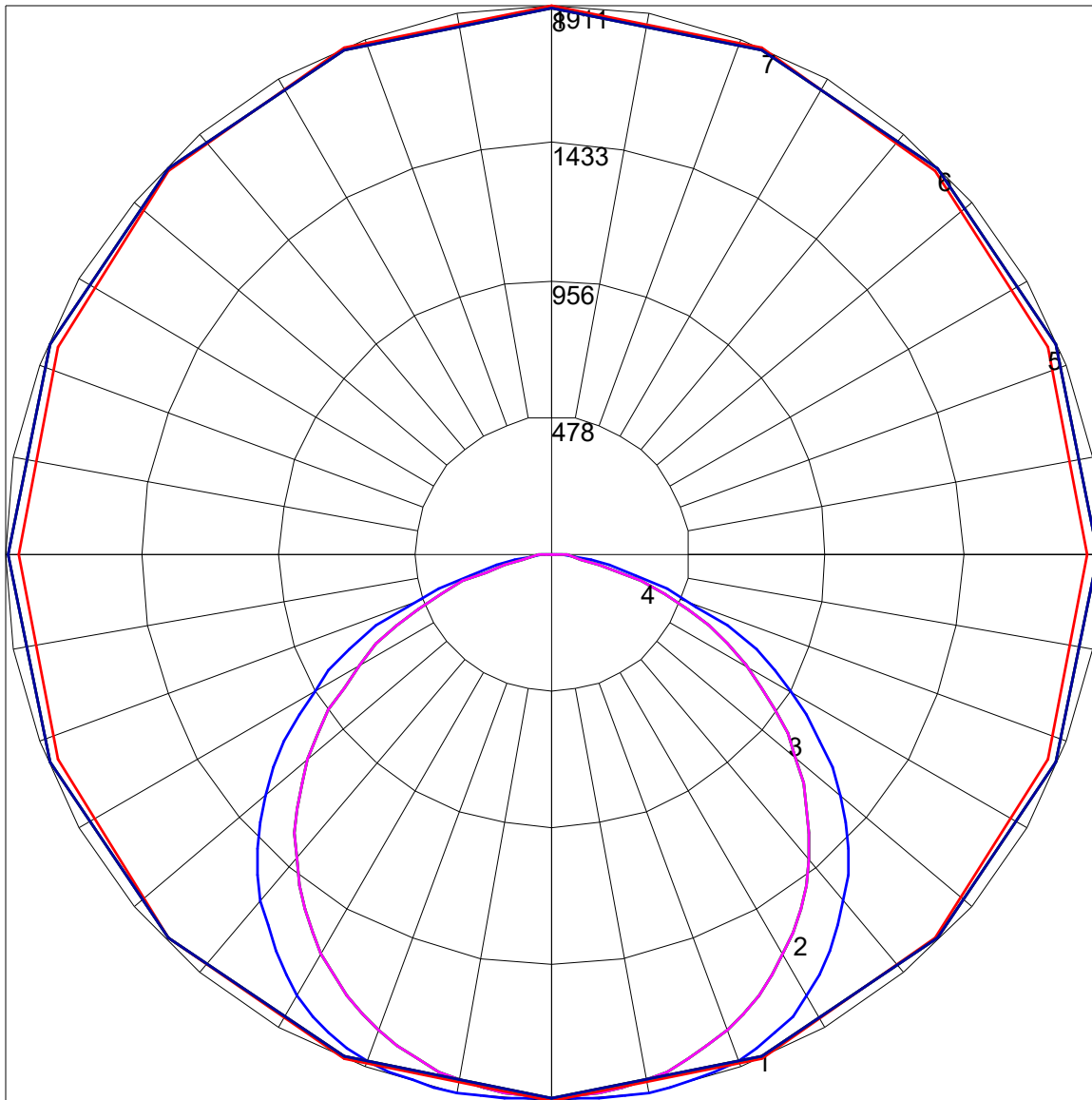
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	65	65	65	65	63	63	63	63	61	61	61	58	58	58	56	56	56	55
1	60	57	55	53	58	56	54	52	54	52	50	51	50	49	49	48	47	46
2	54	50	46	43	53	49	45	43	47	44	42	45	43	41	43	42	40	39
3	49	44	39	36	48	43	39	35	41	38	35	40	37	34	38	36	34	32
4	45	39	34	30	44	38	34	30	37	33	30	35	32	29	34	31	29	28
5	42	35	30	26	40	34	29	26	33	29	26	32	28	25	31	28	25	24
6	38	31	26	23	37	31	26	23	30	25	22	29	25	22	28	24	22	21
7	35	28	23	20	35	28	23	20	27	23	20	26	22	20	25	22	19	18
8	33	26	21	18	32	25	21	18	24	20	18	24	20	17	23	20	17	16
9	31	23	19	16	30	23	19	16	22	19	16	22	18	16	21	18	16	15
10	29	22	17	14	28	21	17	14	21	17	14	20	17	14	20	17	14	13

POLAR GRAPH



Maximum Candela = 1911.245 Located At Horizontal Angle = 90, Vertical Angle = 10

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

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

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

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

5 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

6 - Horizontal Cone Through Vertical Angle (0)

7 - Horizontal Cone Through Vertical Angle (0)

8 - Horizontal Cone Through Vertical Angle (0)