



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 390440-3546-HSR (2022).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]26138
 [TESTLAB]LIGHTING SCIENCES, INC.
 [ISSUE DATE]
 [MANUFACTURER]LDPI INC - 4' FLUORESCENT LUMINAIRE
 [LUMEN CATEGORY]390440HLO-UNV-PR
 [LUMINAIRE]WITH MIRO 4 SPECULAR REFLECTOR AND CLEAR FLAT GLASS LENS
 [LAMP]FOUR GE 32 WATT T8 LAMPS
 [LAMP CATEGORY]F32T8-XL-SPX50-HL-ECO. LUMEN RATING = 2600 LMS.
 [OTHER]ONE GE GE432MAX-H/ULTRA BALLAST OPERATING AT 120 VAC AND 129 WATTS

CHARACTERISTICS

Lumens Per Lamp	2600 (4 lamps)
Total Lamp Lumens	10400
Luminaire Lumens	7539
Total Luminaire Efficiency	72 %
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	129
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
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	7416	6982	5724
55	6855	5464	4737
65	5797	4255	3576
75	3815	2556	1314
85	805	457	408

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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	3072.605	3072.605	3072.605	3072.605	3072.605
2.5	3069.832	3068.619	3078.672	3077.892	3059.952
5.0	3060.992	3061.252	3073.212	3071.305	3059.085
7.5	3045.565	3047.385	3059.605	3061.685	3049.725
10.0	3023.118	3026.152	3041.752	3052.238	3046.432
12.5	2993.478	2997.378	3020.258	3050.592	3049.638
15.0	2958.465	2961.585	2999.892	3038.892	3034.038
17.5	2916.345	2920.331	2978.051	3009.685	3007.692
20.0	2867.118	2876.564	2943.991	2975.105	2972.418
22.5	2811.044	2824.044	2899.705	2928.478	2916.865
25.0	2748.037	2768.491	2848.744	2859.664	2831.411
27.5	2677.664	2707.564	2788.077	2766.324	2729.231
30.0	2601.570	2642.564	2712.504	2655.650	2589.437
32.5	2517.676	2568.810	2615.783	2510.830	2418.789
35.0	2427.369	2486.303	2505.196	2341.916	2239.735
37.5	2331.602	2396.429	2384.036	2166.155	2061.201
40.0	2229.422	2299.882	2237.222	1989.181	1887.087
42.5	2121.868	2197.528	2068.395	1812.987	1716.700
45.0	2008.941	2087.288	1891.421	1643.726	1550.646
47.5	1890.987	1967.514	1712.800	1478.106	1396.465
50.0	1768.093	1838.640	1535.133	1321.325	1266.812
52.5	1640.173	1696.420	1364.659	1188.898	1151.544
55.0	1506.359	1547.786	1200.771	1070.771	1041.044
57.5	1369.512	1386.239	1047.284	958.970	928.984
60.0	1228.505	1213.685	915.550	848.037	814.496
62.5	1084.464	1036.104	798.290	735.023	700.789
65.0	938.690	864.677	689.003	622.442	578.936
67.5	792.483	701.049	576.856	502.322	453.702
70.0	649.049	552.589	469.042	380.901	335.055
72.5	509.429	425.535	362.268	267.021	224.034
75.0	378.301	320.148	253.414	163.194	130.261
77.5	258.961	225.248	155.741	89.787	71.414
80.0	156.694	144.561	78.174	44.720	36.053
82.5	80.254	77.220	34.060	24.093	21.840
85.0	26.867	27.647	15.253	13.953	13.607
87.5	6.587	7.107	6.327	7.453	7.540
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	1138.68	10.90	15.10
0-30	2434.11	23.40	32.30
0-40	3942.22	37.90	52.30
0-60	6507.08	62.60	86.30
0-80	7507.24	72.20	99.60
0-90	7539.4	72.50	100.00
10-90	7247.62	69.70	96.10
20-40	2803.54	27.00	37.20
20-50	4230.03	40.70	56.10
40-70	3290.3	31.60	43.60
60-80	1000.16	9.60	13.30
70-80	274.73	2.60	3.60
80-90	32.16	0.30	0.40
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	7539.4	72.50	100.00

Total Luminaire Efficiency = 72.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	291.78
10-20	846.90
20-30	1295.43
30-40	1508.11
40-50	1426.49
50-60	1138.37
60-70	725.43
70-80	274.73
80-90	32.16
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

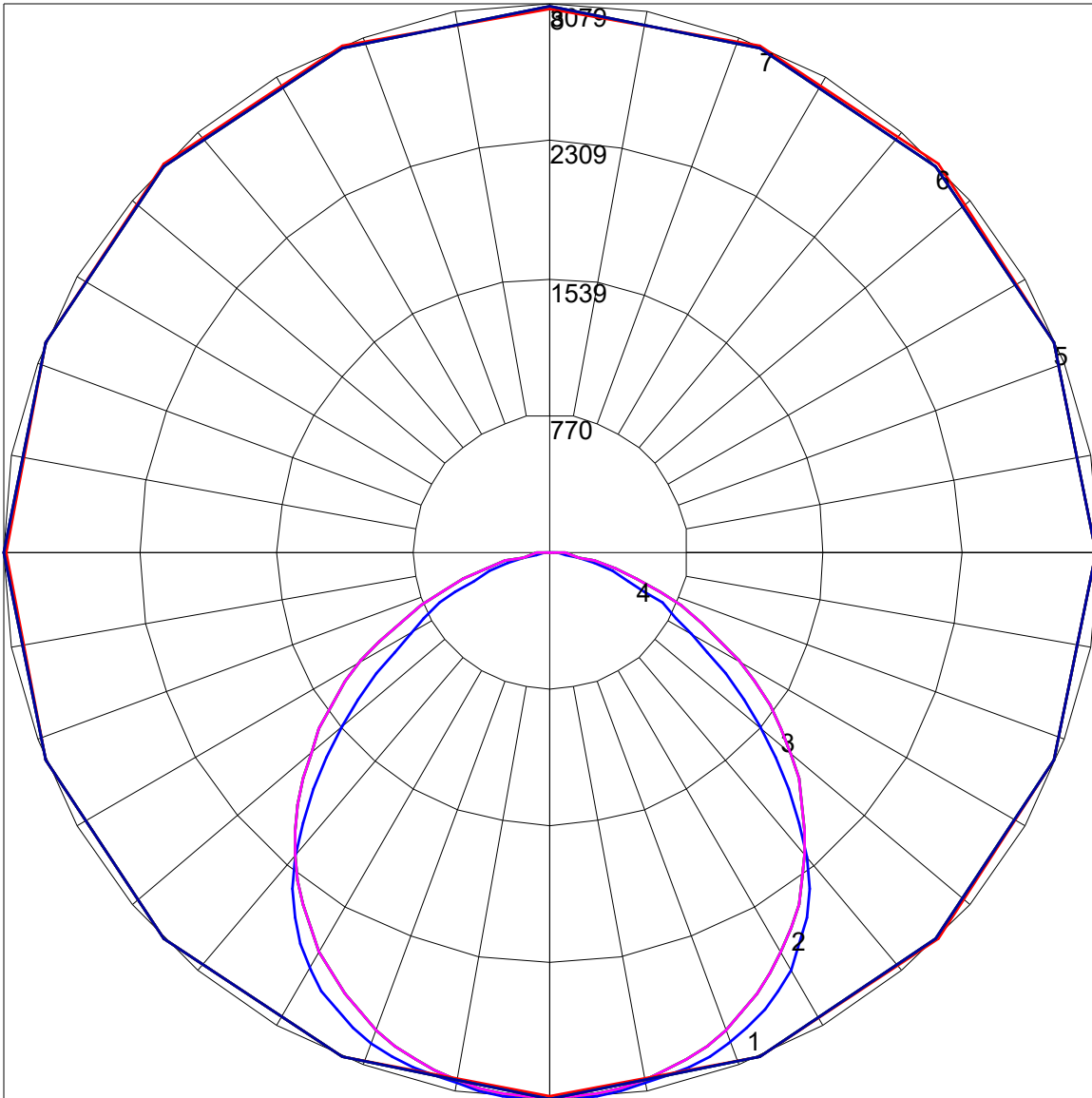
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	72
1	80	77	74	72	78	75	73	71	72	70	68	69	68	66	67	66	64	63
2	73	68	64	60	72	67	63	59	64	61	58	62	59	56	60	57	55	54
3	67	60	55	51	66	59	54	50	57	53	49	55	51	48	53	50	48	46
4	62	54	48	43	60	53	47	43	51	46	43	49	45	42	48	44	41	40
5	57	48	42	38	56	48	42	38	46	41	37	45	40	37	43	40	36	35
6	53	44	38	33	52	43	37	33	42	37	33	41	36	33	40	35	32	31
7	49	40	34	30	48	39	33	29	38	33	29	37	32	29	36	32	29	27
8	46	36	31	26	45	36	30	26	35	30	26	34	29	26	33	29	26	25
9	43	34	28	24	42	33	28	24	32	27	24	32	27	24	31	27	23	22
10	40	31	25	22	39	31	25	22	30	25	22	29	25	22	29	24	21	20

POLAR GRAPH



Maximum Candela = 3078.672 Located At Horizontal Angle = 45, Vertical Angle = 2.5

- # 1 - Vertical Plane Through Horizontal Angles (45 - 225) (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 (2.5) (Through Max. Cd.)
- # 6 - Horizontal Cone Through Vertical Angle (0)
- # 7 - Horizontal Cone Through Vertical Angle (0)
- # 8 - Horizontal Cone Through Vertical Angle (0)