



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 390440-3546-HWR.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]26053  
 [TESTLAB]LIGHTING SCIENCES, INC.  
 [ISSUE DATE]  
 [MANUFACTURER]LDPI INC - 4' FLUORESCENT LUMINAIRE  
 [LUMEN CATEGORY]390440HLO-UNV-WR  
 [LUMINAIRE]WITH WHITE 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 128 WATTS

**CHARACTERISTICS**

Lumens Per Lamp	2600 (4 lamps)
Total Lamp Lumens	10400
Luminaire Lumens	6825
Total Luminaire Efficiency	66 %
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	128
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.42
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	6287	6453	6202
55	6011	5857	5529
65	5415	4791	4177
75	3858	2648	1863
85	815	449	444

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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>
<b>0.0</b>	2456.056	2456.056	2456.056	2456.056	2456.056
<b>2.5</b>	2457.443	2455.796	2464.550	2458.569	2441.583
<b>5.0</b>	2451.116	2451.203	2463.336	2458.656	2448.776
<b>7.5</b>	2440.629	2442.623	2455.449	2454.496	2443.836
<b>10.0</b>	2424.943	2428.409	2444.356	2447.389	2440.023
<b>12.5</b>	2405.269	2408.736	2430.403	2438.723	2432.049
<b>15.0</b>	2380.483	2386.116	2411.769	2423.816	2418.269
<b>17.5</b>	2351.016	2359.596	2388.889	2402.756	2399.549
<b>20.0</b>	2316.696	2327.702	2361.156	2378.229	2377.103
<b>22.5</b>	2276.742	2291.649	2329.782	2351.189	2349.369
<b>25.0</b>	2231.675	2251.002	2292.689	2316.956	2313.576
<b>27.5</b>	2182.535	2205.155	2251.609	2273.622	2269.982
<b>30.0</b>	2127.328	2153.935	2202.122	2221.622	2215.122
<b>32.5</b>	2067.788	2097.168	2146.308	2158.875	2147.695
<b>35.0</b>	2004.174	2035.201	2083.041	2084.948	2070.128
<b>37.5</b>	1935.534	1969.508	2014.748	2002.961	1984.328
<b>40.0</b>	1862.821	1898.874	1936.141	1912.567	1889.167
<b>42.5</b>	1785.774	1822.434	1846.527	1811.687	1787.854
<b>45.0</b>	1703.093	1740.880	1748.247	1706.040	1680.126
<b>47.5</b>	1616.340	1652.913	1642.426	1594.846	1570.233
<b>50.0</b>	1524.819	1558.879	1528.199	1479.232	1456.439
<b>52.5</b>	1427.926	1457.132	1410.159	1361.192	1337.445
<b>55.0</b>	1320.805	1348.885	1287.005	1239.771	1214.985
<b>57.5</b>	1220.358	1232.925	1161.164	1112.978	1084.638
<b>60.0</b>	1110.031	1108.818	1033.937	980.464	950.390
<b>62.5</b>	994.417	980.030	906.017	846.563	817.096
<b>65.0</b>	876.810	846.130	775.756	712.229	676.349
<b>67.5</b>	753.743	710.236	642.376	571.396	539.155
<b>70.0</b>	628.336	578.069	513.155	436.975	407.248
<b>72.5</b>	505.182	452.662	382.635	309.575	285.134
<b>75.0</b>	382.548	334.881	262.601	203.147	184.687
<b>77.5</b>	268.408	227.761	159.901	122.200	111.454
<b>80.0</b>	167.181	135.201	84.327	65.694	61.014
<b>82.5</b>	86.840	62.400	37.873	33.453	32.240
<b>85.0</b>	27.213	19.673	14.993	14.733	14.820
<b>87.5</b>	3.813	4.073	5.460	7.280	7.800
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	913.40	8.80	13.40
0-30	1965.82	18.90	28.80
0-40	3253.48	31.30	47.70
0-60	5725.86	55.10	83.90
0-80	6792.00	65.30	99.50
0-90	6825.01	65.60	100.00
10-90	6591.19	63.40	96.60
20-40	2340.08	22.50	34.30
20-50	3665.96	35.20	53.70
40-70	3239.5	31.10	47.50
60-80	1066.14	10.30	15.60
70-80	299.01	2.90	4.40
80-90	33.01	0.30	0.50
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	6825.01	65.60	100.00

Total Luminaire Efficiency = 65.60%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	233.81
10-20	679.58
20-30	1052.43
30-40	1287.66
40-50	1325.87
50-60	1146.5
60-70	767.13
70-80	299.01
80-90	33.01
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

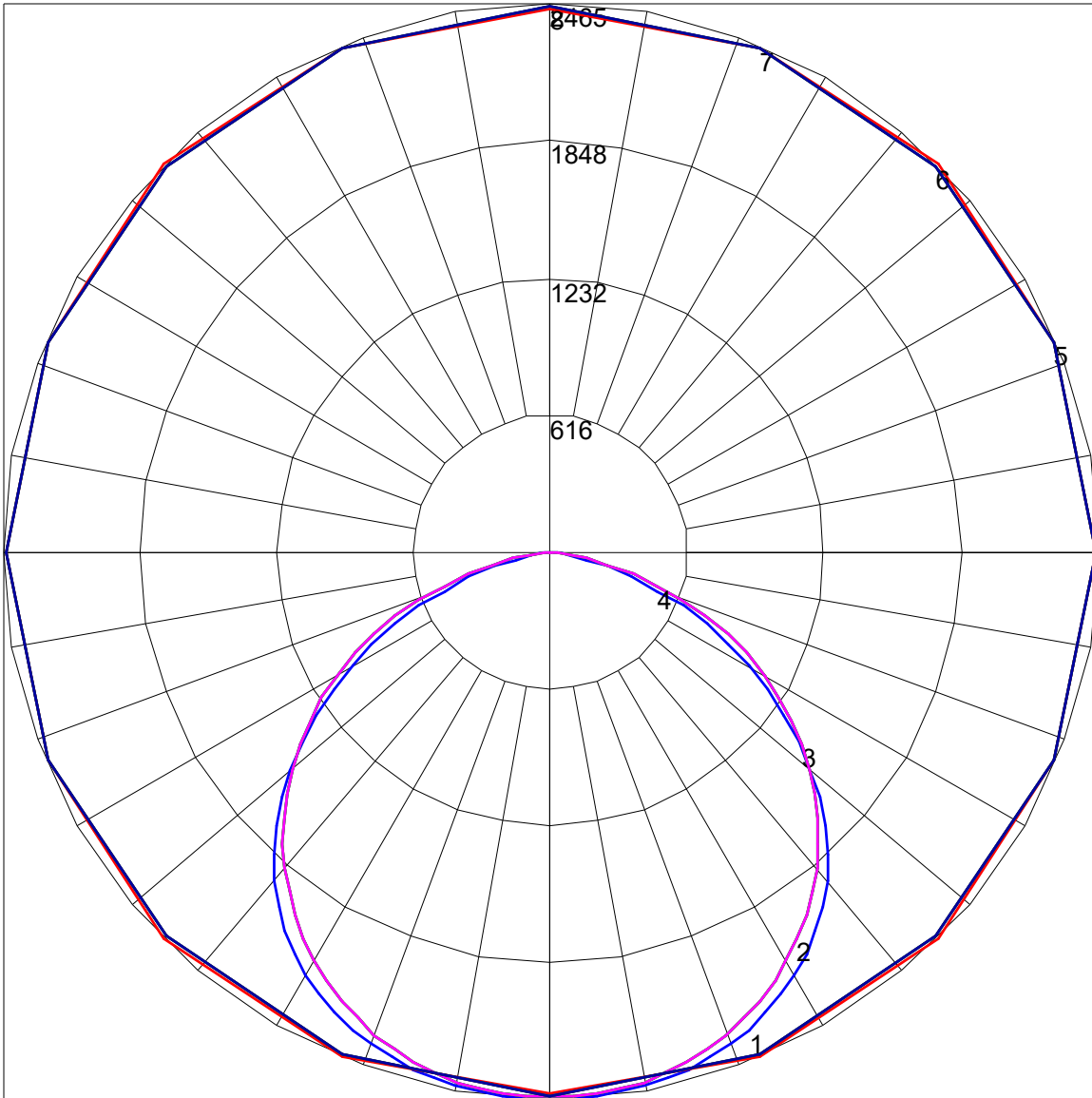
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	78	78	78	78	76	76	76	76	73	73	73	70	70	70	67	67	67	66
1	72	69	67	64	70	68	65	63	65	63	61	62	61	59	60	59	58	56
2	66	61	57	53	64	60	56	52	57	54	51	55	52	50	53	51	49	48
3	60	54	48	44	59	53	48	44	51	47	43	49	45	42	47	44	42	40
4	55	48	42	38	54	47	41	37	45	41	37	44	40	36	42	39	36	35
5	51	43	37	33	49	42	36	32	40	36	32	39	35	32	38	34	31	30
6	47	38	33	28	46	38	32	28	36	32	28	35	31	28	34	31	28	26
7	43	35	29	25	42	34	29	25	33	28	25	32	28	25	31	27	24	23
8	40	32	26	22	39	31	26	22	30	26	22	30	25	22	29	25	22	21
9	38	29	24	20	37	29	24	20	28	23	20	27	23	20	27	23	20	19
10	35	27	22	18	35	26	21	18	26	21	18	25	21	18	25	21	18	17

POLAR GRAPH



Maximum Candela = 2464.55 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)