



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LIT-2-850-X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111016
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] LiT-2-850-U10
 [LUMINAIRE] OSRAM OPTOTRONIC OTI50/120-277/1A4 DIM-1 L G2
 [BALLASTCAT] LED LUMINAIRE
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 277VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	38.59
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	45187	38662	38058
55	43710	37572	39385
65	41210	38307	39822
75	36583	37407	37407
85	30602	31520	26318

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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	1749	1749	1749	1749	1749	1749	1749	1749	1749	1749
5	1753	1753	1751	1748	1746	1746	1748	1751	1756	1758
10	1736	1737	1736	1735	1736	1738	1742	1746	1751	1754
15	1703	1704	1706	1707	1708	1712	1716	1720	1724	1725
20	1658	1660	1663	1666	1668	1670	1671	1670	1667	1664
25	1589	1592	1596	1598	1600	1598	1593	1596	1604	1607
30	1509	1514	1519	1521	1518	1510	1511	1517	1515	1485
35	1418	1423	1428	1428	1417	1417	1419	1395	1328	1273
40	1312	1319	1324	1316	1310	1311	1268	1191	1153	1136
45	1198	1205	1208	1196	1196	1150	1070	1044	1032	1025
50	1073	1081	1079	1070	1044	961	932	924	915	910
55	940	948	940	931	851	818	809	802	804	808
60	798	808	796	746	700	690	685	691	699	709
65	653	659	645	582	569	565	573	585	597	607
70	504	505	467	444	441	450	465	478	488	491
75	355	352	318	316	327	341	353	358	361	363
80	216	205	196	207	219	226	229	231	232	232
85	100	93	100	105	107	109	108	107	105	103
90	19	20	19	17	14	12	11	10	10	9
95	8	9	8	8	8	8	8	8	8	8
100	11	10	8	8	8	8	8	8	8	8
105	12	9	13	9	8	8	8	8	7	7
110	15	9	12	20	11	8	8	7	7	7
115	17	8	13	16	25	17	7	7	7	6
120	21	8	11	15	24	32	27	8	6	6
125	25	13	10	15	16	31	41	37	24	7
130	28	18	9	14	18	18	33	49	44	41
135	34	24	10	13	18	21	21	33	52	57
140	37	27	15	13	17	21	23	24	29	44
145	40	30	26	14	16	20	24	26	27	27
150	45	32	37	19	17	19	22	26	28	29
155	45	31	44	32	20	19	21	23	26	28
160	44	31	41	46	33	23	20	21	23	25
165	41	31	36	46	47	39	29	23	21	22
170	36	32	31	35	43	48	46	42	36	31
175	38	39	34	32	33	35	37	42	46	47
180	35	35	35	35	35	35	35	35	35	35

Vert. 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>
0	1749	1749	1749	1749	1749	1749	1749	1749	1749
5	1759	1758	1758	1756	1755	1753	1751	1749	1750
10	1756	1756	1755	1753	1752	1750	1747	1745	1745
15	1722	1719	1714	1710	1707	1704	1701	1698	1696
20	1662	1661	1661	1660	1659	1657	1654	1651	1649
25	1604	1592	1569	1541	1513	1488	1470	1458	1453
30	1436	1385	1346	1323	1309	1300	1294	1289	1286
35	1244	1228	1219	1210	1203	1199	1196	1192	1189
40	1128	1125	1116	1109	1101	1097	1094	1091	1091
45	1016	1013	1013	1012	1013	1010	1009	1008	1009
50	912	916	921	924	927	930	930	930	932
55	815	823	833	838	841	844	845	846	847
60	718	726	736	743	748	751	753	753	752

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CANDELA TABULATION - (Cont.)

65	618	624	626	628	631	632	633	632	631
70	495	498	501	502	503	503	504	502	501
75	365	366	367	367	367	368	367	365	363
80	232	232	231	231	231	230	228	226	226
85	101	98	96	93	91	89	88	87	86
90	9	8	8	8	8	7	7	7	7
95	8	8	8	8	8	7	7	7	7
100	8	8	8	8	8	8	7	8	7
105	7	7	7	7	7	7	7	7	7
110	7	6	6	6	6	6	6	6	6
115	6	6	6	6	6	5	5	5	5
120	6	6	5	5	5	5	5	5	5
125	6	5	5	5	5	5	5	5	5
130	29	13	6	6	5	5	5	5	5
135	52	51	43	35	26	19	12	9	8
140	60	67	64	60	58	58	57	55	56
145	32	43	55	66	71	74	75	74	73
150	30	30	30	34	38	43	47	50	50
155	30	31	31	32	32	32	32	33	33
160	27	28	29	30	31	32	32	32	32
165	23	23	24	25	26	27	27	28	28
170	27	24	23	23	23	23	23	23	23
175	48	48	47	47	48	48	49	49	51
180	35	35	35	35	35	35	35	35	35

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	650.07	N.A.	13.00
0-30	1366.81	N.A.	27.40
0-40	2185.71	N.A.	43.80
0-60	3775.71	N.A.	75.70
0-80	4756.35	N.A.	95.40
0-90	4874.05	N.A.	97.70
10-90	4707.03	N.A.	94.40
20-40	1535.64	N.A.	30.80
20-50	2365.67	N.A.	47.40
40-70	2196.2	N.A.	44.00
60-80	980.64	N.A.	19.70
70-80	374.43	N.A.	7.50
80-90	117.70	N.A.	2.40
90-110	18.00	N.A.	0.40
90-120	27.15	N.A.	0.50
90-130	39.89	N.A.	0.80
90-150	87.14	N.A.	1.70
90-180	113.37	N.A.	2.30
110-180	95.36	N.A.	1.90
0-180	4987.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	167.02
10-20	483.05
20-30	716.74
30-40	818.90
40-50	830.03
50-60	759.97
60-70	606.20
70-80	374.43
80-90	117.70
90-100	9.49
100-110	8.51
110-120	9.15
120-130	12.74
130-140	22.47
140-150	24.78
150-160	14.12
160-170	8.52
170-180	3.59

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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	119	119	119	119	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	86	88	85	83	81
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	67
3	89	79	70	64	87	77	69	63	74	67	62	70	65	60	68	63	59	57
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	75	62	53	47	73	61	53	46	59	51	45	56	50	45	54	49	44	42
6	69	56	47	41	67	55	47	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

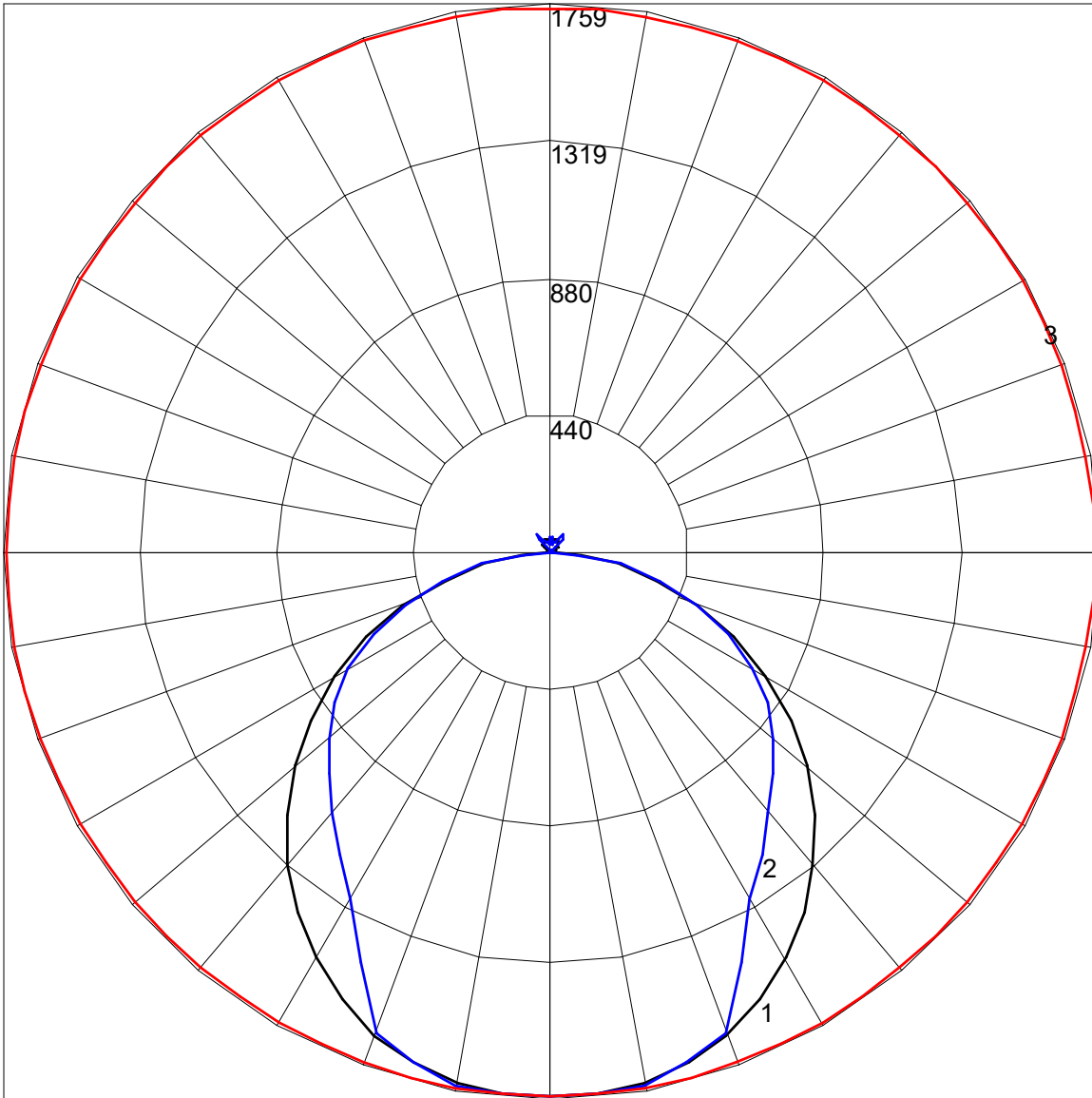
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.7	26.3	25.1	26.7	27.1	24.8	26.4	25.2	26.7	27.1
	3H	26.7	28.1	27.1	28.5	28.9	26.9	28.3	27.3	28.7	29.1
	4H	27.4	28.7	27.8	29.1	29.6	27.7	29.0	28.1	29.4	29.8
	6H	27.9	29.2	28.4	29.6	30.0	28.3	29.5	28.7	29.9	30.4
	8H	28.1	29.3	28.6	29.7	30.2	28.4	29.7	28.9	30.1	30.5
	12H	28.2	29.4	28.7	29.8	30.3	28.6	29.7	29.0	30.2	30.6
4H	2H	25.4	26.8	25.8	27.2	27.6	25.4	26.8	25.9	27.2	27.6
	3H	27.5	28.7	28.0	29.1	29.6	27.8	28.9	28.2	29.3	29.8
	4H	28.4	29.4	28.9	29.9	30.4	28.7	29.8	29.2	30.2	30.7
	6H	29.1	30.0	29.6	30.5	31.0	29.5	30.4	29.9	30.9	31.4
	8H	29.3	30.2	29.8	30.7	31.2	29.7	30.6	30.2	31.0	31.5
	12H	29.5	30.3	30.0	30.8	31.3	29.9	30.6	30.4	31.1	31.7
8H	4H	28.8	29.7	29.3	30.1	30.6	29.1	29.9	29.6	30.4	30.9
	6H	29.6	30.4	30.2	30.9	31.4	30.0	30.7	30.5	31.2	31.7
	8H	30.0	30.6	30.5	31.2	31.7	30.3	30.9	30.8	31.5	32.0
	12H	30.3	30.8	30.8	31.4	32.0	30.5	31.1	31.1	31.6	32.2
12H	4H	28.8	29.6	29.4	30.1	30.6	29.1	29.9	29.6	30.4	30.9
	6H	29.7	30.4	30.3	30.9	31.5	30.0	30.7	30.6	31.2	31.8
	8H	30.1	30.7	30.7	31.2	31.8	30.4	31.0	31.0	31.5	32.1

Maximum UGR = 32.2

POLAR GRAPH



Maximum Candela = 1759 Located At Horizontal Angle = 50, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (0)