



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LIT-8-850-X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111017
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] LiT-8-850-U10
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI85/120-277/2A3 DIM L HB
 [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	20441
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	154
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.66 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	45497	32476	29781
55	44353	29146	28359
65	41942	27234	25679
75	37042	22793	20026
85	30132	11872	8919

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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	7052	7052	7052	7052	7052	7052	7052	7052	7052	7052
5	7048	7050	7044	7030	7016	7012	7030	7048	7054	7054
10	6978	6984	6980	6958	6944	6940	6956	6970	6970	6964
15	6852	6852	6846	6826	6806	6796	6798	6794	6780	6764
20	6658	6654	6648	6622	6592	6564	6554	6554	6552	6552
25	6396	6396	6386	6342	6296	6270	6280	6304	6338	6376
30	6080	6078	6062	6008	5958	5956	6002	6060	6104	6116
35	5716	5712	5688	5624	5598	5640	5708	5738	5662	5444
40	5308	5302	5260	5204	5218	5290	5300	5104	4818	4654
45	4850	4840	4780	4756	4806	4814	4576	4304	4198	4148
50	4356	4340	4284	4294	4324	4098	3846	3752	3692	3656
55	3848	3818	3770	3802	3642	3380	3302	3242	3230	3242
60	3290	3258	3234	3188	2918	2830	2786	2792	2830	2868
65	2696	2662	2650	2464	2348	2316	2332	2382	2436	2488
70	2078	2050	1986	1842	1822	1860	1914	1970	2030	2066
75	1476	1452	1332	1304	1358	1422	1484	1512	1540	1566
80	916	866	818	868	938	972	1002	1022	1036	1044
85	428	392	432	470	490	504	514	520	522	522
90	80	88	90	86	80	74	66	60	54	50
95	38	34	34	34	34	34	34	32	32	32
100	44	40	34	34	32	32	32	30	30	30
105	50	64	36	36	32	30	30	30	30	28
110	56	78	52	36	36	32	28	28	26	26
115	66	84	110	38	36	36	36	26	24	22
120	78	92	134	90	38	36	36	36	36	22
125	88	98	142	178	60	38	38	36	36	36
130	96	108	148	192	186	58	42	40	38	38
135	110	118	156	196	232	198	64	48	44	44
140	124	124	164	200	238	268	224	98	56	52
145	128	128	170	200	236	270	294	278	176	86
150	136	126	170	200	228	260	290	314	324	286
155	140	124	166	192	214	240	266	292	316	336
160	142	124	152	186	206	222	240	258	278	298
165	150	126	142	178	196	216	228	238	246	256
170	156	142	132	144	168	192	204	216	226	232
175	164	160	144	134	136	142	148	162	176	188
180	146	146	146	146	146	146	146	146	146	146

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	7052	7052	7052	7052	7052	7052	7052	7052	7052
5	7048	7040	7038	7048	7060	7054	7040	7034	7024
10	6946	6932	6924	6924	6926	6916	6902	6896	6882
15	6746	6734	6730	6740	6748	6740	6730	6730	6714
20	6562	6578	6600	6630	6654	6658	6652	6654	6640
25	6406	6422	6432	6436	6414	6372	6332	6298	6274
30	6062	5936	5768	5614	5498	5416	5362	5336	5318
35	5198	5042	4968	4930	4902	4880	4862	4848	4834
40	4588	4550	4516	4486	4456	4434	4418	4408	4394
45	4106	4084	4072	4072	4066	4058	4056	4058	4050
50	3664	3682	3710	3726	3734	3744	3750	3754	3748
55	3286	3330	3366	3390	3404	3412	3422	3428	3426
60	2916	2960	2996	3024	3050	3068	3080	3088	3084

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PHOTOMETRIC FILENAME : LIT-8-850-X.IES

CANDELA TABULATION - (Cont.)

65	2542	2584	2608	2616	2618	2620	2626	2628	2618
70	2078	2096	2112	2126	2132	2140	2148	2146	2134
75	1582	1592	1600	1604	1610	1616	1618	1610	1602
80	1052	1058	1060	1064	1068	1070	1066	1060	1056
85	520	518	518	514	510	506	502	498	496
90	46	42	40	38	36	34	34	32	32
95	32	30	30	30	30	30	30	30	30
100	30	28	28	28	28	28	26	26	26
105	28	26	26	26	26	26	26	26	24
110	26	24	24	24	24	24	22	22	22
115	22	22	22	22	22	20	22	22	22
120	20	20	20	20	18	18	18	18	18
125	38	28	18	18	18	18	18	18	18
130	38	40	40	40	40	38	32	26	26
135	44	42	44	44	44	44	44	44	46
140	52	50	50	50	50	50	50	50	50
145	64	60	60	58	58	58	58	58	58
150	204	128	86	72	70	70	68	68	68
155	346	344	312	266	222	190	164	150	146
160	320	338	350	360	364	368	368	368	372
165	270	284	300	316	326	330	334	336	338
170	236	238	244	252	268	276	280	282	282
175	194	198	198	196	202	208	224	226	232
180	146	146	146	146	146	146	146	146	146

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2585.23	N.A.	12.60
0-30	5487.99	N.A.	26.80
0-40	8822.65	N.A.	43.20
0-60	15275.13	N.A.	74.70
0-80	19380.9	N.A.	94.80
0-90	19938.84	N.A.	97.50
10-90	19270.14	N.A.	94.30
20-40	6237.42	N.A.	30.50
20-50	9601.05	N.A.	47.00
40-70	8954.65	N.A.	43.80
60-80	4105.76	N.A.	20.10
70-80	1603.6	N.A.	7.80
80-90	557.94	N.A.	2.70
90-110	74.10	N.A.	0.40
90-120	109.23	N.A.	0.50
90-130	155.19	N.A.	0.80
90-150	306.05	N.A.	1.50
90-180	502.44	N.A.	2.50
110-180	428.33	N.A.	2.10
0-180	20441.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	668.70
10-20	1916.53
20-30	2902.76
30-40	3334.66
40-50	3363.63
50-60	3088.86
60-70	2502.16
70-80	1603.6
80-90	557.94
90-100	41.08
100-110	33.03
110-120	35.13
120-130	45.96
130-140	66.08
140-150	84.78
150-160	106.09
160-170	72.13
170-180	18.17

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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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	29
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

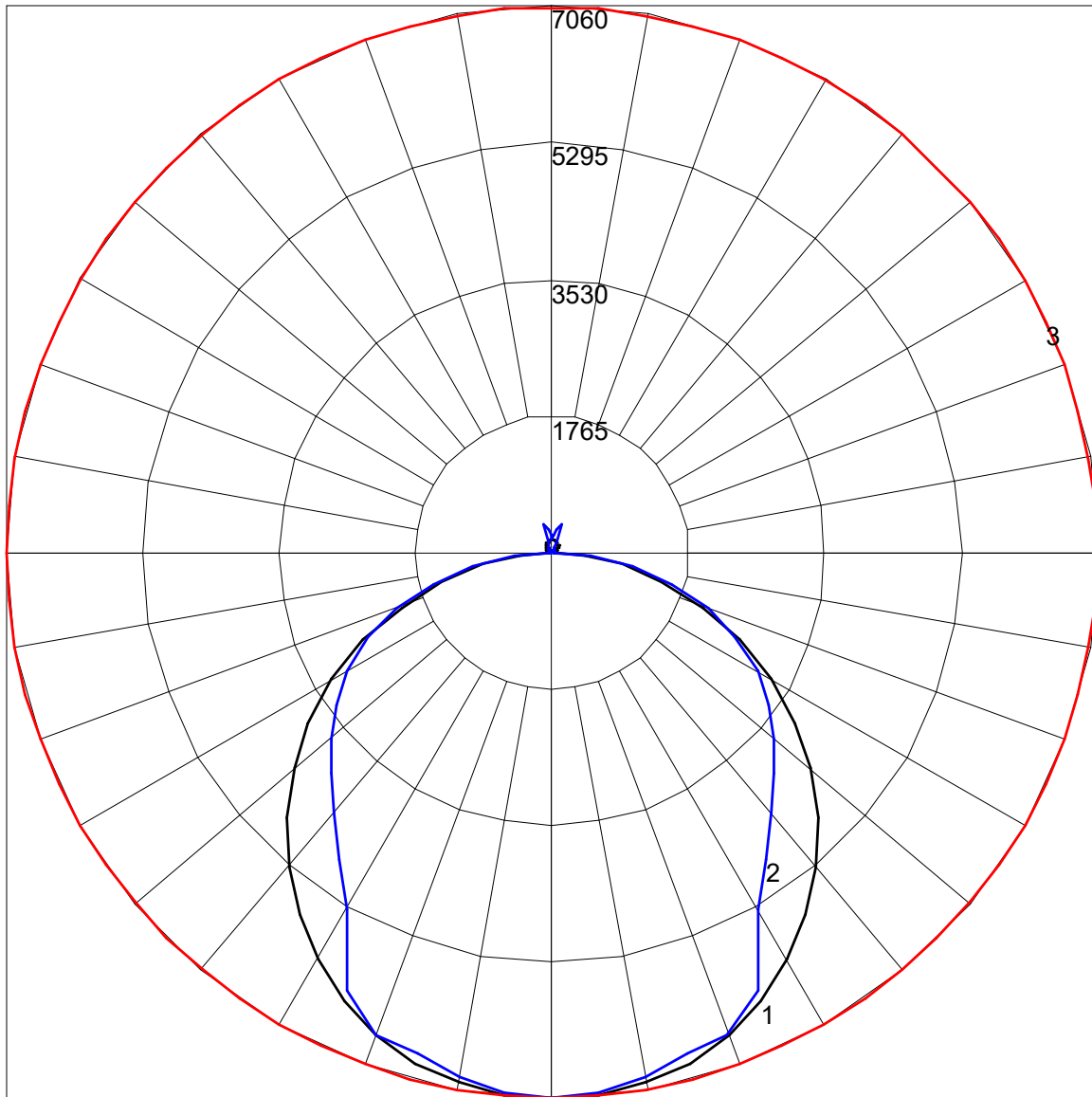
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UGR TABLE - CORRECTED

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	23.8	25.4	24.2	25.7	26.1	24.3	25.9	24.7	26.3	26.6
	3H	25.4	26.9	25.8	27.2	27.6	26.5	28.0	26.9	28.3	28.7
	4H	25.9	27.3	26.4	27.7	28.1	27.4	28.8	27.8	29.1	29.6
	6H	26.3	27.6	26.7	28.0	28.4	28.1	29.4	28.5	29.8	30.2
	8H	26.4	27.6	26.9	28.0	28.5	28.3	29.6	28.8	30.0	30.4
	12H	26.4	27.6	26.9	28.0	28.5	28.5	29.7	29.0	30.1	30.6
4H	2H	24.4	25.8	24.8	26.1	26.6	24.8	26.2	25.2	26.6	27.0
	3H	26.2	27.4	26.7	27.8	28.3	27.2	28.4	27.7	28.8	29.3
	4H	26.9	27.9	27.3	28.4	28.9	28.2	29.3	28.7	29.7	30.2
	6H	27.3	28.3	27.8	28.8	29.3	29.1	30.0	29.6	30.5	31.0
	8H	27.5	28.3	28.0	28.8	29.3	29.4	30.3	29.9	30.7	31.2
	12H	27.6	28.3	28.1	28.9	29.4	29.6	30.4	30.1	30.9	31.4
8H	4H	27.3	28.1	27.8	28.6	29.1	28.5	29.3	29.0	29.8	30.3
	6H	27.9	28.6	28.4	29.1	29.6	29.4	30.2	29.9	30.7	31.2
	8H	28.1	28.7	28.6	29.3	29.8	29.8	30.5	30.3	31.0	31.5
	12H	28.2	28.8	28.7	29.3	29.9	30.1	30.7	30.6	31.2	31.8
12H	4H	27.3	28.1	27.8	28.6	29.1	28.5	29.3	29.0	29.8	30.3
	6H	28.0	28.6	28.5	29.1	29.7	29.5	30.1	30.0	30.6	31.2
	8H	28.2	28.8	28.8	29.3	29.9	29.9	30.5	30.4	31.0	31.6

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 7060 Located At Horizontal Angle = 70, 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)