



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-8-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111034
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-8-TA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2 (2 DRIVER)
 [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	49756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	164
Total Luminaire Watts	302.98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.96 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33718	42475	46836
55	27791	42559	53644
65	20900	45362	53052
75	12380	38241	37515
85	4542	16962	8695

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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	16081	16081	16081	16081	16081	16081	16081	16081	16081	16081
5	16016	16027	16047	16028	16001	16006	16013	15999	16007	16034
10	15749	15756	15724	15742	15764	15851	15977	16118	16153	16170
15	15314	15300	15239	15291	15478	15655	15727	15802	15766	15735
20	14683	14633	14592	14756	14840	14940	14959	15034	15089	15171
25	13901	13831	13859	13956	13998	14039	14118	14240	14304	14312
30	12859	12778	12804	12907	12968	13051	13228	13214	13271	13549
35	11584	11532	11619	11826	11834	11960	11996	12185	12523	12837
40	10098	10131	10356	10514	10560	10668	10929	11310	11665	11929
45	8604	8689	8945	9122	9231	9456	9877	10307	10612	10970
50	7189	7270	7479	7682	7902	8298	8804	9173	9547	9908
55	5827	5903	6050	6281	6620	7135	7573	7993	8538	9076
60	4539	4582	4707	4967	5352	5840	6390	7068	7880	8439
65	3298	3327	3451	3735	4169	4695	5452	6213	6868	7338
70	2168	2204	2357	2644	3120	3722	4385	5063	5628	6013
75	1252	1291	1446	1741	2147	2645	3138	3615	3969	4029
80	596	640	756	963	1211	1454	1692	2019	2264	2422
85	188	208	254	307	380	473	589	704	768	776
90	73	73	73	75	76	79	81	84	86	89
95	100	109	90	79	79	80	82	83	85	87
100	132	174	206	166	87	79	79	79	81	82
105	169	238	298	353	317	152	79	72	71	72
110	213	286	398	439	499	520	324	146	76	63
115	259	330	471	543	567	622	682	560	331	176
120	300	364	506	621	645	660	696	765	755	636
125	337	397	527	658	703	709	721	726	776	820
130	365	413	524	643	731	747	751	753	746	759
135	383	417	507	613	686	762	774	776	769	764
140	385	412	479	565	647	710	776	788	788	782
145	382	405	450	530	598	658	701	775	793	794
150	384	400	427	490	547	600	642	659	728	780
155	387	397	414	442	496	533	569	605	636	650
160	380	386	398	411	432	465	494	518	544	570
165	365	369	376	386	394	406	422	441	459	474
170	364	365	367	373	378	383	388	394	400	409
175	377	377	377	377	377	378	379	382	384	386
180	385	385	385	385	385	385	385	385	385	385

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	16081	16081	16081	16081	16081	16081	16081	16081	16081
5	16069	16117	16169	16225	16262	16291	16308	16325	16341
10	16227	16260	16247	16231	16216	16200	16192	16192	16197
15	15734	15710	15777	15800	15801	15818	15838	15846	15850
20	15216	15230	15233	15238	15215	15224	15235	15234	15235
25	14371	14501	14703	14807	14906	14988	15019	15040	15043
30	13838	13996	14148	14352	14500	14536	14555	14562	14561
35	13152	13384	13470	13579	13588	13567	13567	13586	13595
40	12243	12479	12535	12553	12577	12601	12654	12698	12704
45	11216	11419	11556	11615	11703	11800	11868	11924	11944
50	10206	10410	10761	11186	11644	11956	12159	12230	12243
55	9572	10121	10500	10686	10885	11032	11154	11223	11238
60	8774	9145	9519	9824	10022	10102	10126	10109	10099

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CANDELA TABULATION - (Cont.)

65	7785	8148	8265	8223	8227	8298	8350	8357	8361
70	6183	6269	6304	6238	6152	6069	5992	5940	5910
75	4066	4136	4221	4284	4219	4081	3936	3832	3786
80	2461	2399	2286	2097	1914	1770	1671	1619	1595
85	745	686	610	523	450	406	379	364	358
90	91	92	94	95	96	97	98	98	98
95	89	90	92	93	94	95	96	97	97
100	83	84	85	87	88	89	90	90	91
105	72	73	74	75	76	77	78	79	79
110	63	63	63	64	65	66	66	67	67
115	100	68	57	57	58	58	58	59	59
120	459	301	183	124	104	88	76	69	68
125	800	734	632	527	451	372	318	285	276
130	789	815	826	811	781	750	727	711	706
135	749	748	761	774	783	796	807	812	815
140	778	775	765	748	739	740	744	746	744
145	801	801	791	785	783	783	784	783	781
150	794	804	804	808	809	813	816	818	821
155	702	740	771	791	803	810	818	825	827
160	596	614	639	649	669	691	709	722	724
165	489	502	519	535	546	553	557	564	565
170	417	423	429	433	438	442	445	446	449
175	388	389	391	394	398	400	401	404	405
180	385	385	385	385	385	385	385	385	385

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PHOTOMETRIC FILENAME : E-8-XX-850-2-X-CA HO5.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5947.76	N.A.	12.00
0-30	12590.95	N.A.	25.30
0-40	20540.32	N.A.	41.30
0-60	36667.12	N.A.	73.70
0-80	46503.61	N.A.	93.50
0-90	47260.91	N.A.	95.00
10-90	45725.09	N.A.	91.90
20-40	14592.56	N.A.	29.30
20-50	22830.08	N.A.	45.90
40-70	22480.82	N.A.	45.20
60-80	9836.49	N.A.	19.80
70-80	3482.47	N.A.	7.00
80-90	757.30	N.A.	1.50
90-110	247.39	N.A.	0.50
90-120	529.71	N.A.	1.10
90-130	1038.14	N.A.	2.10
90-150	2025.54	N.A.	4.10
90-180	2494.68	N.A.	5.00
110-180	2247.29	N.A.	4.50
0-180	49755.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1535.82
10-20	4411.94
20-30	6643.19
30-40	7949.37
40-50	8237.52
50-60	7889.28
60-70	6354.02
70-80	3482.47
80-90	757.30
90-100	100.60
100-110	146.79
110-120	282.32
120-130	508.43
130-140	550.34
140-150	437.07
150-160	294.64
160-170	136.82
170-180	37.67

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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	108	108	108	103	103	103	97	97	97	95
1	108	103	98	95	104	100	96	93	95	92	89	90	87	85	86	84	82	79
2	98	89	82	77	94	87	81	75	83	77	73	78	74	70	75	71	68	66
3	89	78	70	63	86	76	69	62	72	66	61	69	64	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	59	53	49	47
5	74	61	52	46	72	60	52	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	40	66	54	46	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	38	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	29	28
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22

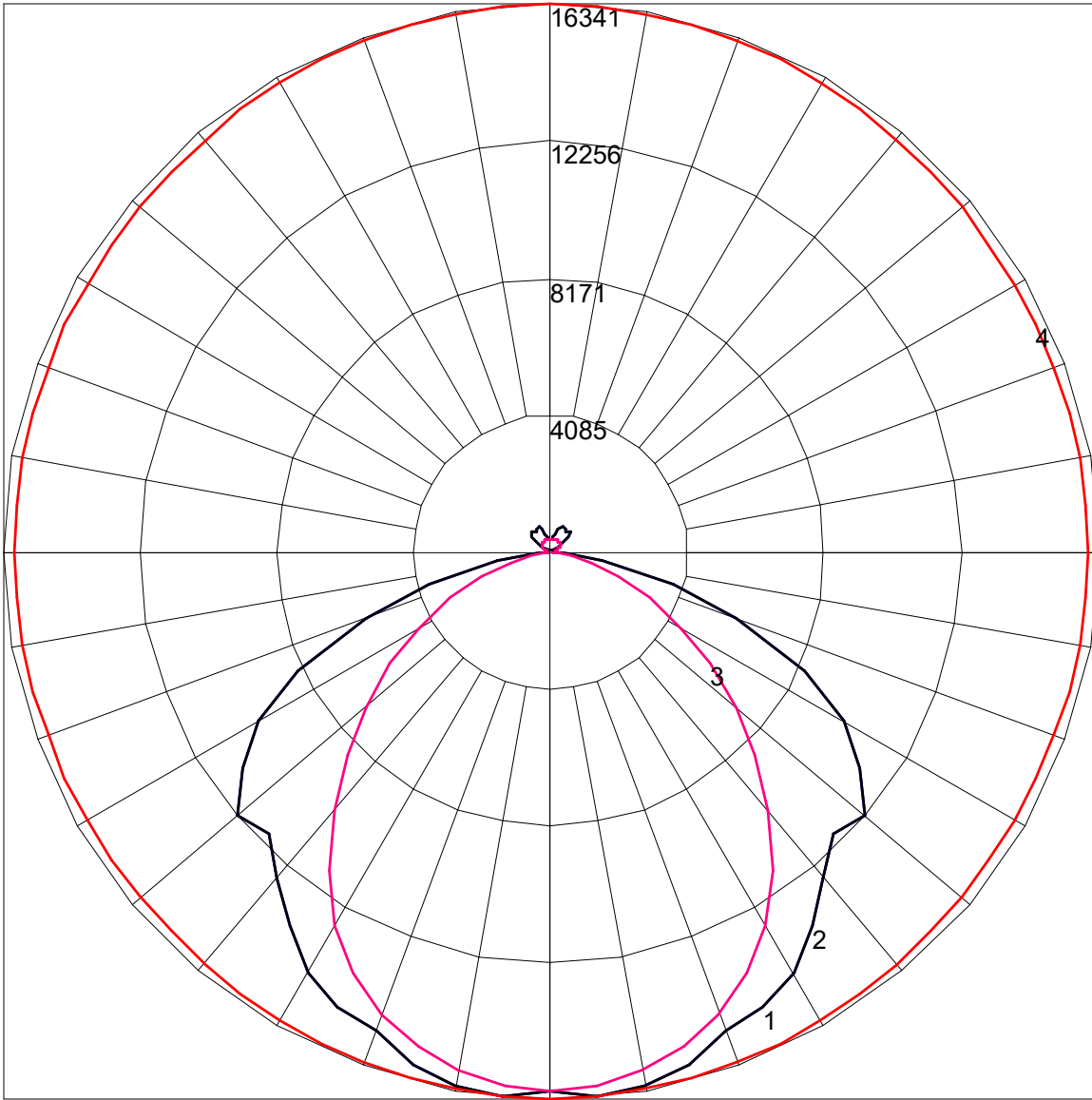
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UGR TABLE - CORRECTED

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	22.6	24.1	23.0	24.5	25.0	26.6	28.2	27.1	28.6	29.0
	3H	23.7	25.0	24.1	25.5	25.9	28.5	29.9	28.9	30.3	30.8
	4H	23.9	25.2	24.4	25.7	26.2	29.0	30.3	29.5	30.8	31.3
	6H	24.1	25.3	24.5	25.7	26.2	29.3	30.5	29.8	31.0	31.5
	8H	24.1	25.2	24.6	25.7	26.2	29.3	30.5	29.8	30.9	31.5
	12H	24.1	25.2	24.6	25.6	26.2	29.3	30.4	29.8	30.9	31.4
4H	2H	24.3	25.6	24.8	26.0	26.5	27.2	28.5	27.6	28.9	29.4
	3H	25.8	26.9	26.2	27.3	27.9	29.3	30.4	29.8	30.9	31.4
	4H	26.2	27.2	26.7	27.7	28.2	30.0	31.0	30.5	31.5	32.0
	6H	26.4	27.2	26.9	27.8	28.3	30.3	31.2	30.9	31.7	32.3
	8H	26.4	27.2	26.9	27.7	28.3	30.4	31.2	30.9	31.7	32.3
	12H	26.4	27.1	26.9	27.7	28.3	30.4	31.1	30.9	31.7	32.2
8H	4H	27.0	27.8	27.6	28.4	28.9	30.2	31.0	30.7	31.5	32.1
	6H	27.4	28.1	28.0	28.6	29.2	30.7	31.3	31.2	31.9	32.5
	8H	27.5	28.1	28.0	28.7	29.3	30.7	31.3	31.3	31.9	32.5
	12H	27.5	28.0	28.1	28.6	29.3	30.8	31.3	31.4	31.9	32.6
12H	4H	27.1	27.8	27.7	28.4	29.0	30.2	30.9	30.7	31.5	32.1
	6H	27.6	28.2	28.2	28.7	29.4	30.7	31.3	31.3	31.8	32.5
	8H	27.7	28.2	28.3	28.8	29.5	30.8	31.3	31.4	31.9	32.6

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 16341 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)