



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111028
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-2-SA-850-2-U10 HO5
 [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	12582
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	167
Total Luminaire Watts	75.44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.96 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17626	20266	22287
55	14518	19941	25260
65	10881	21370	25017
75	6440	19246	19284
85	2466	14167	14135

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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	4043	4043	4043	4043	4043	4043	4043	4043	4043	4043
5	4014	4021	4028	4043	4034	4019	4009	4007	4007	4014
10	3969	3971	3974	3956	3957	3980	4021	4065	4084	4094
15	3875	3863	3843	3858	3909	3961	3987	3993	3994	3990
20	3727	3700	3692	3739	3784	3800	3812	3827	3829	3852
25	3529	3500	3509	3559	3577	3593	3613	3650	3661	3625
30	3266	3247	3254	3306	3330	3354	3411	3376	3337	3350
35	2956	2939	2963	3047	3047	3099	3070	3048	3077	3117
40	2587	2587	2661	2717	2745	2740	2729	2766	2823	2865
45	2203	2221	2306	2360	2382	2370	2414	2487	2539	2619
50	1841	1858	1928	1984	1995	2021	2121	2184	2269	2355
55	1491	1513	1556	1598	1616	1707	1800	1899	2014	2146
60	1161	1173	1204	1227	1286	1387	1515	1676	1865	2014
65	841	851	866	899	982	1112	1295	1478	1643	1768
70	553	560	575	648	728	882	1058	1225	1369	1494
75	319	322	346	408	513	636	787	907	1018	1065
80	152	156	182	235	305	386	469	564	643	700
85	50	54	70	95	129	172	226	281	330	372
90	18	22	31	47	69	97	132	171	211	248
95	20	22	30	41	61	83	109	137	165	188
100	24	26	32	42	51	65	88	112	132	146
105	29	32	40	55	69	73	81	90	102	111
110	34	40	45	65	85	104	100	101	102	102
115	40	46	50	69	94	111	134	127	118	114
120	46	52	56	76	94	119	111	149	151	136
125	52	57	62	78	102	111	132	111	148	159
130	57	58	65	77	99	114	115	137	133	112
135	61	60	64	81	93	111	122	108	140	139
140	64	62	62	79	91	101	117	127	110	118
145	65	63	58	75	88	95	102	116	125	128
150	69	67	61	67	82	92	98	100	110	119
155	72	70	66	62	73	83	92	97	99	101
160	72	71	69	66	64	72	80	85	92	96
165	73	71	70	68	66	65	66	71	77	81
170	74	73	72	71	70	69	67	67	67	67
175	77	76	76	76	75	75	74	74	73	73
180	76	76	76	76	76	76	76	76	76	76

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	4043	4043	4043	4043	4043	4043	4043	4043	4043
5	4024	4038	4055	4076	4096	4113	4124	4130	4133
10	4094	4099	4103	4111	4121	4129	4132	4131	4133
15	3991	3994	3996	4009	4037	4057	4071	4078	4078
20	3887	3878	3863	3857	3851	3845	3837	3833	3829
25	3602	3609	3639	3663	3680	3695	3700	3703	3699
30	3397	3416	3445	3479	3519	3544	3555	3557	3552
35	3178	3233	3254	3268	3285	3287	3281	3283	3281
40	2932	2986	3013	3016	3027	3038	3049	3056	3056
45	2679	2730	2757	2778	2805	2828	2845	2861	2870
50	2432	2479	2558	2666	2779	2861	2916	2942	2954
55	2284	2416	2523	2575	2618	2654	2684	2701	2705
60	2110	2196	2290	2369	2421	2440	2453	2453	2445

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CANDELA TABULATION - (Cont.)

65	1884	1982	2019	2019	2025	2043	2054	2058	2055
70	1537	1561	1580	1590	1596	1594	1587	1588	1589
75	1093	1122	1144	1159	1145	1120	1088	1065	1055
80	728	733	731	700	664	633	613	600	597
85	402	415	407	387	373	367	364	363	362
90	279	287	280	274	268	263	257	254	252
95	203	207	206	201	194	187	182	178	176
100	153	158	159	157	151	147	144	142	142
105	117	121	124	125	125	124	124	123	123
110	102	102	102	103	105	106	108	109	109
115	113	107	104	101	100	100	102	104	105
120	127	122	118	116	114	113	111	110	111
125	158	148	137	132	128	126	125	125	124
130	146	158	159	158	155	152	147	145	145
135	133	112	121	143	153	155	157	157	158
140	140	138	140	134	122	115	111	112	112
145	113	109	125	138	141	140	140	141	142
150	125	130	128	121	114	111	111	112	112
155	106	113	119	123	126	129	130	131	131
160	100	101	102	103	105	107	108	109	110
165	84	88	91	95	98	100	101	102	102
170	68	69	71	73	75	76	78	79	80
175	72	72	72	72	72	72	71	72	72
180	76	76	76	76	76	76	76	76	76

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1505.92	N.A.	12.00
0-30	3175.09	N.A.	25.20
0-40	5142.05	N.A.	40.90
0-60	9061.57	N.A.	72.00
0-80	11537.98	N.A.	91.70
0-90	11882.64	N.A.	94.40
10-90	11495.75	N.A.	91.40
20-40	3636.13	N.A.	28.90
20-50	5647.18	N.A.	44.90
40-70	5473.79	N.A.	43.50
60-80	2476.41	N.A.	19.70
70-80	922.14	N.A.	7.30
80-90	344.66	N.A.	2.70
90-110	259.97	N.A.	2.10
90-120	358.31	N.A.	2.80
90-130	463.35	N.A.	3.70
90-150	623.25	N.A.	5.00
90-180	699.35	N.A.	5.60
110-180	439.37	N.A.	3.50
0-180	12581.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	386.89
10-20	1119.04
20-30	1669.16
30-40	1966.97
40-50	2011.05
50-60	1908.47
60-70	1554.27
70-80	922.14
80-90	344.66
90-100	156.11
100-110	103.86
110-120	98.34
120-130	105.04
130-140	91.71
140-150	68.18
150-160	45.79
160-170	23.34
170-180	6.97

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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	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	104	99	95	91	94	90	87	89	86	84	84	82	80	78
2	97	88	81	76	94	86	80	74	82	76	72	77	73	69	74	70	67	64
3	88	77	69	62	85	75	68	62	72	65	60	68	63	58	65	60	56	54
4	81	68	60	53	78	67	58	52	64	56	51	61	54	49	58	53	48	46
5	74	61	52	45	72	60	51	45	57	49	44	54	48	43	52	46	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	33	30
8	59	45	37	31	57	44	36	31	43	35	30	41	34	30	39	34	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

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UGR TABLE - CORRECTED

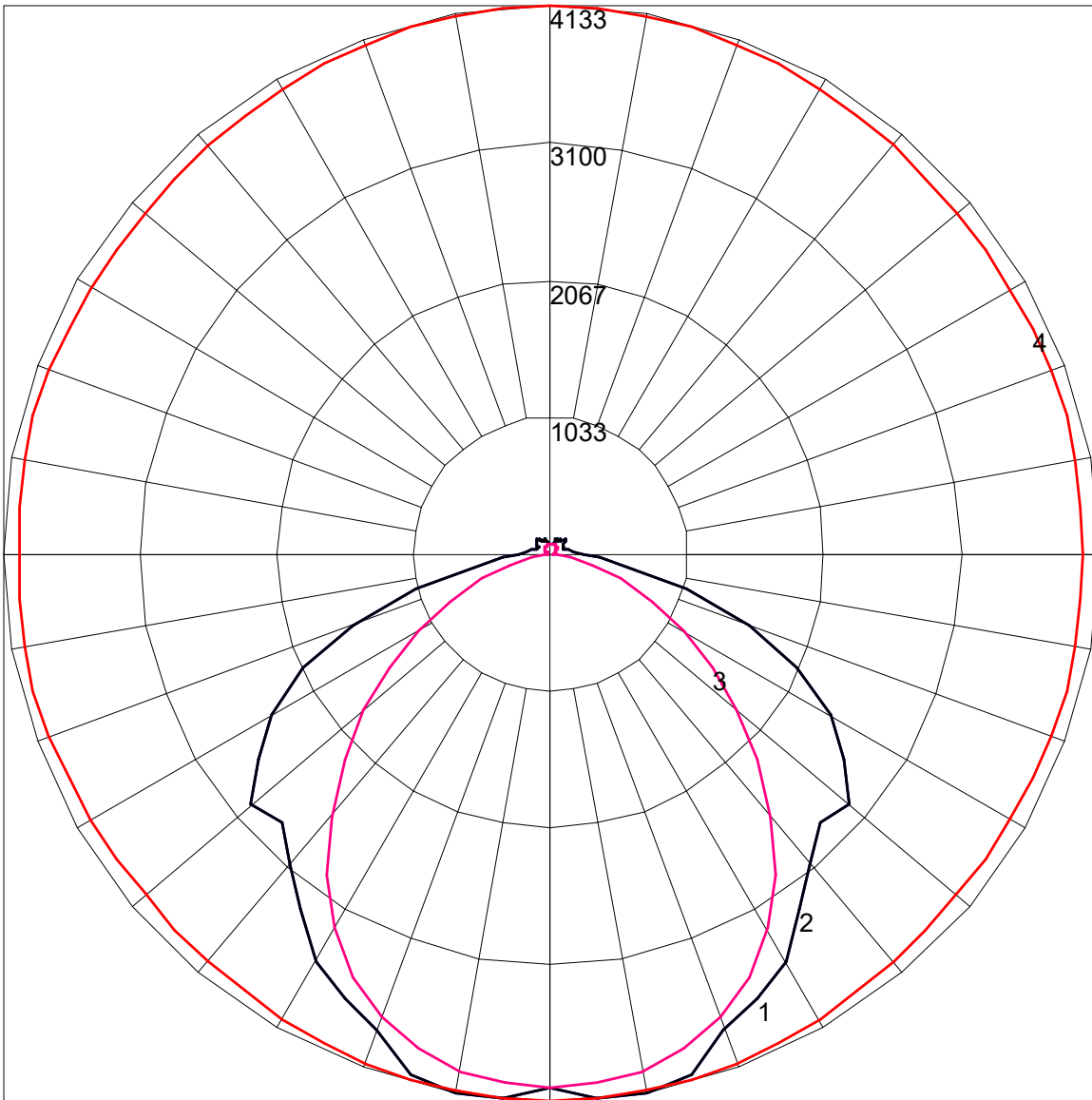
Reflectances

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	19.8	21.4	20.3	21.8	22.3	23.9	25.4	24.3	25.8	26.3
	3H	20.9	22.3	21.4	22.7	23.2	25.9	27.3	26.4	27.8	28.3
	4H	21.1	22.4	21.6	22.9	23.4	26.6	27.9	27.1	28.4	28.9
	6H	21.3	22.5	21.8	22.9	23.5	27.0	28.2	27.5	28.7	29.3
	8H	21.3	22.4	21.8	22.9	23.5	27.2	28.3	27.7	28.8	29.4
	12H	21.3	22.4	21.8	22.9	23.4	27.3	28.4	27.8	28.9	29.5
4H	2H	21.5	22.8	22.0	23.3	23.8	24.4	25.7	24.9	26.1	26.7
	3H	22.9	24.0	23.4	24.5	25.1	26.7	27.8	27.2	28.3	28.8
	4H	23.3	24.3	23.8	24.8	25.4	27.5	28.5	28.1	29.1	29.6
	6H	23.5	24.4	24.0	24.9	25.5	28.1	29.0	28.6	29.5	30.1
	8H	23.5	24.3	24.1	24.9	25.5	28.3	29.1	28.9	29.7	30.3
	12H	23.5	24.3	24.1	24.8	25.4	28.5	29.2	29.1	29.8	30.4
8H	4H	24.3	25.1	24.9	25.7	26.3	27.8	28.6	28.3	29.1	29.7
	6H	24.7	25.4	25.3	26.0	26.6	28.5	29.2	29.1	29.8	30.4
	8H	24.8	25.4	25.4	26.0	26.6	28.8	29.4	29.4	30.0	30.6
	12H	24.8	25.4	25.4	25.9	26.6	29.1	29.6	29.7	30.2	30.9
12H	4H	24.5	25.2	25.0	25.8	26.4	27.8	28.5	28.4	29.1	29.7
	6H	25.0	25.6	25.6	26.2	26.8	28.6	29.2	29.2	29.7	30.4
	8H	25.2	25.7	25.8	26.3	27.0	28.9	29.4	29.5	30.0	30.7

Maximum UGR = 30.9

POLAR GRAPH



- Maximum Candela = 4133 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.)