



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-1-XX-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111027
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-1-SA-850-4-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI50/120-277/1A4DIM-1LG2
 [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	12221
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	78.28
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 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	9652	10301	10947
55	8010	10133	12480
65	6093	10890	12352
75	3630	9293	7459
85	1423	1933	666

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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	4274	4274	4274	4274	4274	4274	4274	4274	4274	4274
5	4246	4262	4272	4260	4252	4252	4250	4252	4262	4278
10	4192	4216	4210	4190	4174	4210	4264	4310	4330	4336
15	4092	4112	4082	4076	4142	4184	4194	4240	4236	4226
20	3948	3938	3916	3976	3984	4018	4010	4040	4034	4056
25	3774	3732	3744	3776	3788	3788	3806	3830	3810	3760
30	3494	3470	3482	3514	3528	3530	3562	3498	3460	3470
35	3158	3158	3182	3246	3230	3244	3170	3156	3168	3178
40	2780	2784	2856	2900	2888	2834	2810	2840	2870	2886
45	2370	2398	2484	2518	2478	2440	2470	2520	2564	2628
50	1982	2014	2076	2092	2056	2062	2148	2206	2266	2348
55	1606	1638	1664	1662	1646	1726	1810	1898	2010	2144
60	1248	1270	1264	1254	1306	1394	1514	1672	1864	2004
65	910	912	898	910	984	1110	1298	1482	1644	1760
70	594	590	584	630	724	884	1060	1224	1378	1488
75	340	332	350	408	516	646	788	888	988	992
80	160	158	180	234	304	372	410	480	528	542
85	50	54	66	76	90	104	114	116	106	94
90	16	16	16	18	18	18	18	20	20	20
95	20	20	18	18	18	18	20	20	20	20
100	24	30	30	24	18	18	18	20	20	20
105	28	38	52	46	38	22	18	18	18	18
110	34	46	72	82	64	62	36	22	16	16
115	40	52	86	106	106	80	82	66	38	22
120	48	58	94	122	124	122	96	96	90	74
125	54	64	100	128	144	136	132	118	98	100
130	60	68	100	126	148	152	142	134	132	110
135	62	68	98	124	140	154	156	146	138	136
140	66	70	94	122	134	146	154	158	148	144
145	68	70	88	114	128	136	146	152	156	156
150	72	70	84	102	122	130	136	140	146	152
155	74	72	80	90	108	122	128	132	136	140
160	74	72	76	84	92	104	116	124	128	130
165	70	70	70	76	82	86	92	100	110	116
170	70	70	70	70	74	76	80	82	86	88
175	74	74	74	74	74	74	74	74	74	74
180	72	72	72	72	72	72	72	72	72	72

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	4274	4274	4274	4274	4274	4274	4274	4274	4274
5	4294	4308	4324	4336	4342	4346	4346	4342	4332
10	4350	4370	4366	4350	4338	4322	4314	4306	4296
15	4228	4208	4186	4196	4194	4194	4194	4182	4176
20	4064	4012	3986	3974	3948	3910	3890	3876	3872
25	3722	3708	3732	3718	3716	3714	3718	3706	3702
30	3480	3462	3466	3488	3526	3526	3516	3498	3492
35	3214	3248	3234	3264	3242	3236	3234	3226	3226
40	2942	2986	2982	2982	2980	2974	2988	3000	3008
45	2666	2704	2736	2748	2760	2780	2792	2800	2812
50	2416	2452	2538	2656	2766	2838	2884	2896	2900
55	2268	2404	2496	2524	2576	2612	2648	2664	2666
60	2082	2186	2278	2346	2400	2420	2434	2430	2422

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CANDELA TABULATION - (Cont.)

65	1876	1980	2014	2010	2020	2030	2038	2034	2024
70	1510	1526	1536	1530	1516	1482	1458	1428	1414
75	972	986	994	992	952	898	854	826	814
80	520	478	436	384	338	302	278	264	258
85	80	66	56	46	40	36	34	34	34
90	20	22	22	22	22	22	22	22	22
95	20	22	22	22	22	22	22	24	24
100	20	20	20	22	22	22	22	22	22
105	18	18	20	20	20	20	20	20	20
110	16	16	16	16	18	18	18	18	18
115	20	14	16	14	16	16	16	16	16
120	52	30	24	22	22	18	16	16	16
125	98	92	76	62	46	36	32	30	30
130	98	102	102	100	96	94	92	90	86
135	132	118	102	98	100	100	102	104	102
140	138	134	136	134	126	120	116	112	112
145	150	146	144	140	138	136	136	136	136
150	156	158	156	154	152	150	150	148	150
155	144	146	150	152	154	156	158	158	158
160	132	134	136	138	140	142	142	144	144
165	122	124	126	128	130	130	130	130	132
170	92	96	100	106	108	110	112	112	114
175	74	74	76	76	78	80	82	84	84
180	72	72	72	72	72	72	72	72	72

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1583.57	N.A.	13.00
0-30	3311.08	N.A.	27.10
0-40	5320.88	N.A.	43.50
0-60	9274.46	N.A.	75.90
0-80	11639.66	N.A.	95.20
0-90	11779.96	N.A.	96.40
10-90	11370.57	N.A.	93.00
20-40	3737.31	N.A.	30.60
20-50	5773.48	N.A.	47.20
40-70	5500.22	N.A.	45.00
60-80	2365.2	N.A.	19.40
70-80	818.56	N.A.	6.70
80-90	140.31	N.A.	1.10
90-110	49.92	N.A.	0.40
90-120	94.91	N.A.	0.80
90-130	171.03	N.A.	1.40
90-150	343.84	N.A.	2.80
90-180	441.45	N.A.	3.60
110-180	391.54	N.A.	3.20
0-180	12221.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	409.40
10-20	1174.17
20-30	1727.52
30-40	2009.8
40-50	2036.16
50-60	1917.42
60-70	1546.64
70-80	818.56
80-90	140.31
90-100	22.55
100-110	27.37
110-120	44.99
120-130	76.12
130-140	90.53
140-150	82.29
150-160	59.59
160-170	30.31
170-180	7.72

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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	109	109	109	104	104	104	99	99	99	96
1	108	103	99	95	105	101	97	94	96	93	90	91	89	87	87	85	83	81
2	98	90	83	78	95	88	82	76	84	79	74	80	76	72	76	73	70	67
3	90	79	71	64	87	77	70	64	74	67	62	70	65	61	67	63	59	57
4	82	70	61	55	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	49	44	42
6	70	56	47	41	67	55	47	41	53	46	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	54	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	36	30	26	35	30	25	24

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UGR TABLE - CORRECTED

Reflectances

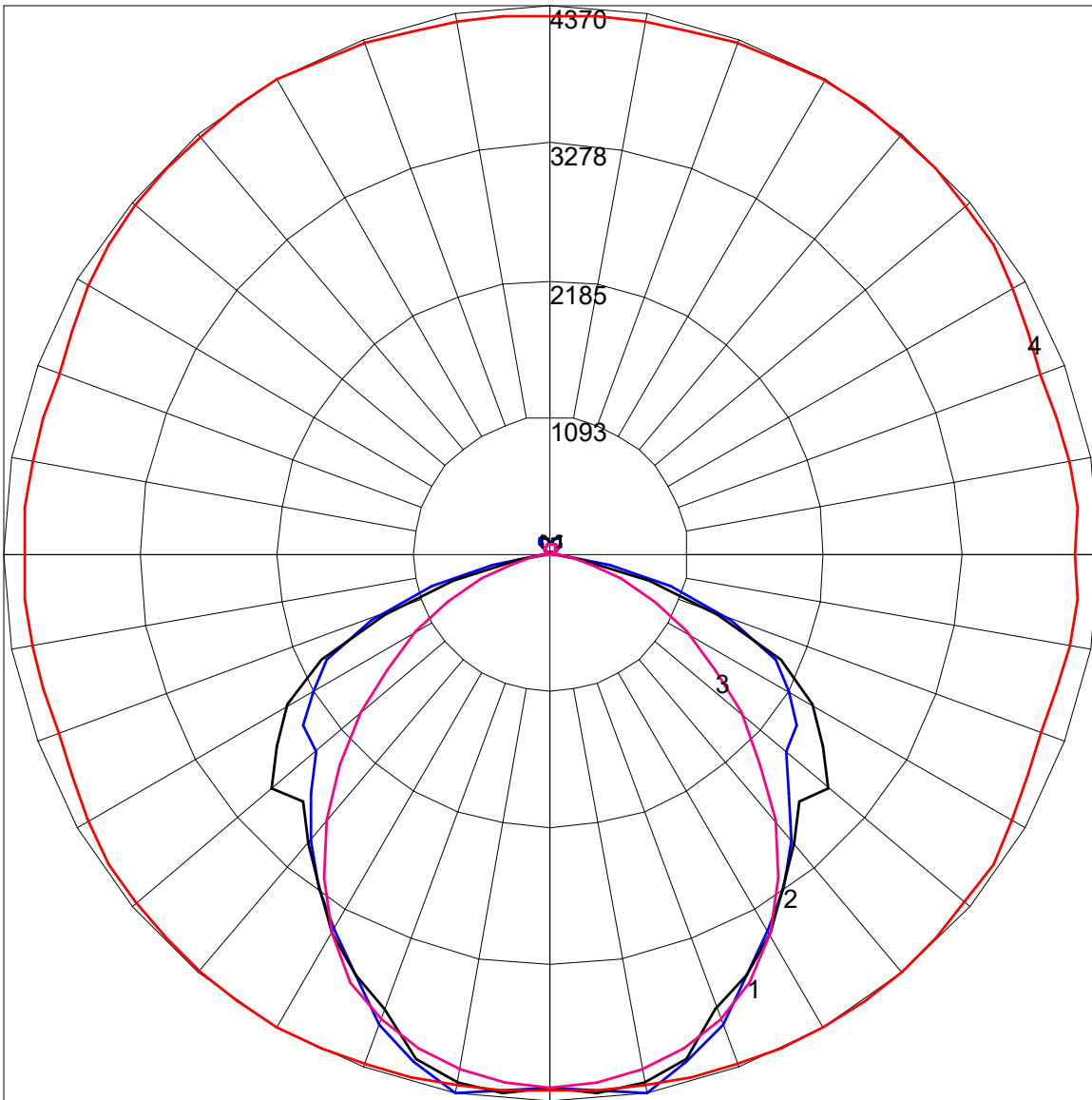
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.8	19.3	18.2	19.7	20.2	21.7	23.2	22.1	23.6	24.0
	3H	18.9	20.2	19.3	20.6	21.1	23.6	25.0	24.1	25.4	25.9
	4H	19.1	20.4	19.6	20.8	21.3	24.1	25.4	24.6	25.8	26.3
	6H	19.2	20.4	19.7	20.9	21.4	24.3	25.5	24.7	25.9	26.4
	8H	19.2	20.4	19.7	20.9	21.4	24.2	25.4	24.7	25.9	26.4
	12H	19.2	20.3	19.7	20.8	21.3	24.2	25.3	24.7	25.8	26.3
4H	2H	19.4	20.7	19.9	21.2	21.6	22.2	23.5	22.7	23.9	24.4
	3H	20.9	22.0	21.3	22.4	22.9	24.4	25.5	24.9	26.0	26.5
	4H	21.3	22.2	21.8	22.7	23.3	25.0	26.0	25.5	26.5	27.0
	6H	21.4	22.3	22.0	22.8	23.4	25.2	26.1	25.8	26.6	27.2
	8H	21.5	22.3	22.0	22.8	23.3	25.2	26.0	25.8	26.6	27.1
	12H	21.5	22.2	22.0	22.7	23.3	25.2	25.9	25.8	26.5	27.1
8H	4H	22.1	22.9	22.6	23.4	24.0	25.2	26.0	25.8	26.6	27.1
	6H	22.4	23.1	23.0	23.7	24.2	25.5	26.2	26.1	26.8	27.3
	8H	22.5	23.1	23.1	23.7	24.2	25.6	26.1	26.1	26.7	27.3
	12H	22.5	23.0	23.1	23.6	24.3	25.6	26.1	26.1	26.6	27.3
12H	4H	22.1	22.9	22.7	23.4	24.0	25.2	25.9	25.8	26.5	27.1
	6H	22.5	23.1	23.1	23.7	24.3	25.5	26.1	26.1	26.7	27.3
	8H	22.7	23.2	23.2	23.7	24.4	25.6	26.1	26.2	26.7	27.3

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 4370 Located At Horizontal Angle = 55, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (55 - 235) (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 (10) (Through Max. Cd.)