



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-5-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111031
 [TESTLAB] LIGHT "LABORATORY," INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-5-DA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI200W/UNV/900C/2DIM+/P6
 [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	31112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	185.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.21 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34862	45612	34253
55	28901	51885	28194
65	22080	51058	21295
75	13486	35922	12707
85	5361	7260	4644

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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	10026	10026	10026	10026	10026	10026	10026	10026	10026	10026
5	9987	9983	9974	9937	9953	10006	10068	10126	10161	10170
10	9833	9821	9790	9939	10080	10138	10163	10143	10132	10141
15	9591	9516	9652	9816	9858	9839	9818	9894	9930	9948
20	9230	9124	9309	9359	9423	9539	9503	9535	9490	9499
25	8750	8684	8784	8836	8980	8981	9139	9281	9336	9368
30	8112	8062	8153	8302	8331	8627	8777	8971	9050	9019
35	7325	7324	7446	7535	7842	8158	8353	8429	8414	8379
40	6430	6552	6672	6857	7288	7596	7779	7803	7821	7835
45	5492	5674	5831	6206	6633	6972	7167	7263	7322	7366
50	4594	4757	4993	5534	5959	6349	6645	7158	7487	7557
55	3741	3856	4176	4776	5309	5942	6542	6737	6897	6954
60	2928	3014	3406	4037	4901	5486	5924	6227	6310	6280
65	2151	2231	2636	3435	4323	4880	5215	5171	5249	5233
70	1432	1528	1973	2798	3568	3929	4015	3944	3831	3780
75	842	955	1390	2031	2565	2603	2674	2702	2540	2437
80	413	529	810	1122	1482	1611	1481	1259	1101	1048
85	137	186	271	417	542	511	407	296	241	226
90	45	46	48	51	54	57	59	60	61	61
95	54	50	50	51	53	56	58	59	61	61
100	72	96	52	50	51	53	55	57	58	59
105	90	143	145	48	47	47	48	50	53	53
110	114	192	251	145	44	42	43	44	45	46
115	139	227	312	357	149	57	38	39	40	41
120	165	242	345	402	417	217	96	63	46	41
125	186	253	404	440	447	457	350	222	150	138
130	207	268	413	430	464	467	472	464	432	416
135	220	264	383	485	466	472	474	462	463	467
140	225	261	343	474	485	473	487	472	473	474
145	229	255	341	423	499	503	472	490	502	501
150	233	250	317	361	454	507	525	514	498	491
155	235	243	282	352	376	443	490	515	529	532
160	230	231	260	302	350	361	395	430	452	461
165	222	222	236	259	286	322	350	360	369	372
170	222	222	223	232	246	258	269	277	287	291
175	234	233	231	229	227	228	230	232	237	235
180	233	233	233	233	233	233	233	233	233	233

Vert. Angles **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	10026	10026	10026	10026	10026	10026	10026	10026	10026
5	10161	10126	10068	10006	9953	9937	9974	9983	9987
10	10132	10143	10163	10138	10080	9939	9790	9821	9833
15	9930	9894	9818	9839	9858	9816	9652	9516	9591
20	9490	9535	9503	9539	9423	9359	9309	9124	9230
25	9336	9281	9139	8981	8980	8836	8784	8684	8750
30	9050	8971	8777	8627	8331	8302	8153	8062	8112
35	8414	8429	8353	8158	7842	7535	7446	7324	7325
40	7821	7803	7779	7596	7288	6857	6672	6552	6430
45	7322	7263	7167	6972	6633	6206	5831	5674	5492
50	7487	7158	6645	6349	5959	5534	4993	4757	4594
55	6897	6737	6542	5942	5309	4776	4176	3856	3741
60	6310	6227	5924	5486	4901	4037	3406	3014	2928

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CANDELA TABULATION - (Cont.)

65	5249	5171	5215	4880	4323	3435	2636	2231	2151
70	3831	3944	4015	3929	3568	2798	1973	1528	1432
75	2540	2702	2674	2603	2565	2031	1390	955	842
80	1101	1259	1481	1611	1482	1122	810	529	413
85	241	296	407	511	542	417	271	186	137
90	61	60	59	57	54	51	48	46	45
95	61	59	58	56	53	51	50	50	54
100	58	57	55	53	51	50	52	96	72
105	53	50	48	47	47	48	145	143	90
110	45	44	43	42	44	145	251	192	114
115	40	39	38	57	149	357	312	227	139
120	46	63	96	217	417	402	345	242	165
125	150	222	350	457	447	440	404	253	186
130	432	464	472	467	464	430	413	268	207
135	463	462	474	472	466	485	383	264	220
140	473	472	487	473	485	474	343	261	225
145	502	490	472	503	499	423	341	255	229
150	498	514	525	507	454	361	317	250	233
155	529	515	490	443	376	352	282	243	235
160	452	430	395	361	350	302	260	231	230
165	369	360	350	322	286	259	236	222	222
170	287	277	269	258	246	232	223	222	222
175	237	232	230	228	227	229	231	233	234
180	233	233	233	233	233	233	233	233	233

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3714.03	N.A.	11.90
0-30	7865.85	N.A.	25.30
0-40	12827.54	N.A.	41.20
0-60	22895.57	N.A.	73.60
0-80	29148.22	N.A.	93.70
0-90	29653.83	N.A.	95.30
10-90	28696.67	N.A.	92.20
20-40	9113.51	N.A.	29.30
20-50	14254.79	N.A.	45.80
40-70	14078.34	N.A.	45.20
60-80	6252.65	N.A.	20.10
70-80	2242.34	N.A.	7.20
80-90	505.61	N.A.	1.60
90-110	141.20	N.A.	0.50
90-120	290.47	N.A.	0.90
90-130	573.77	N.A.	1.80
90-150	1167.01	N.A.	3.80
90-180	1458.6	N.A.	4.70
110-180	1317.4	N.A.	4.20
0-180	31112.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	957.15
10-20	2756.88
20-30	4151.82
30-40	4961.69
40-50	5141.28
50-60	4926.75
60-70	4010.31
70-80	2242.34
80-90	505.61
90-100	61.14
100-110	80.06
110-120	149.27
120-130	283.30
130-140	326.12
140-150	267.11
150-160	182.62
160-170	86.13
170-180	22.85

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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	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	108	103	98	94	104	100	96	92	95	92	89	90	88	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	73	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	72	66	61	69	63	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	51	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	40	66	54	45	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	36	31	43	36	30	41	35	30	40	34	29	27
9	55	42	33	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	38	31	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22

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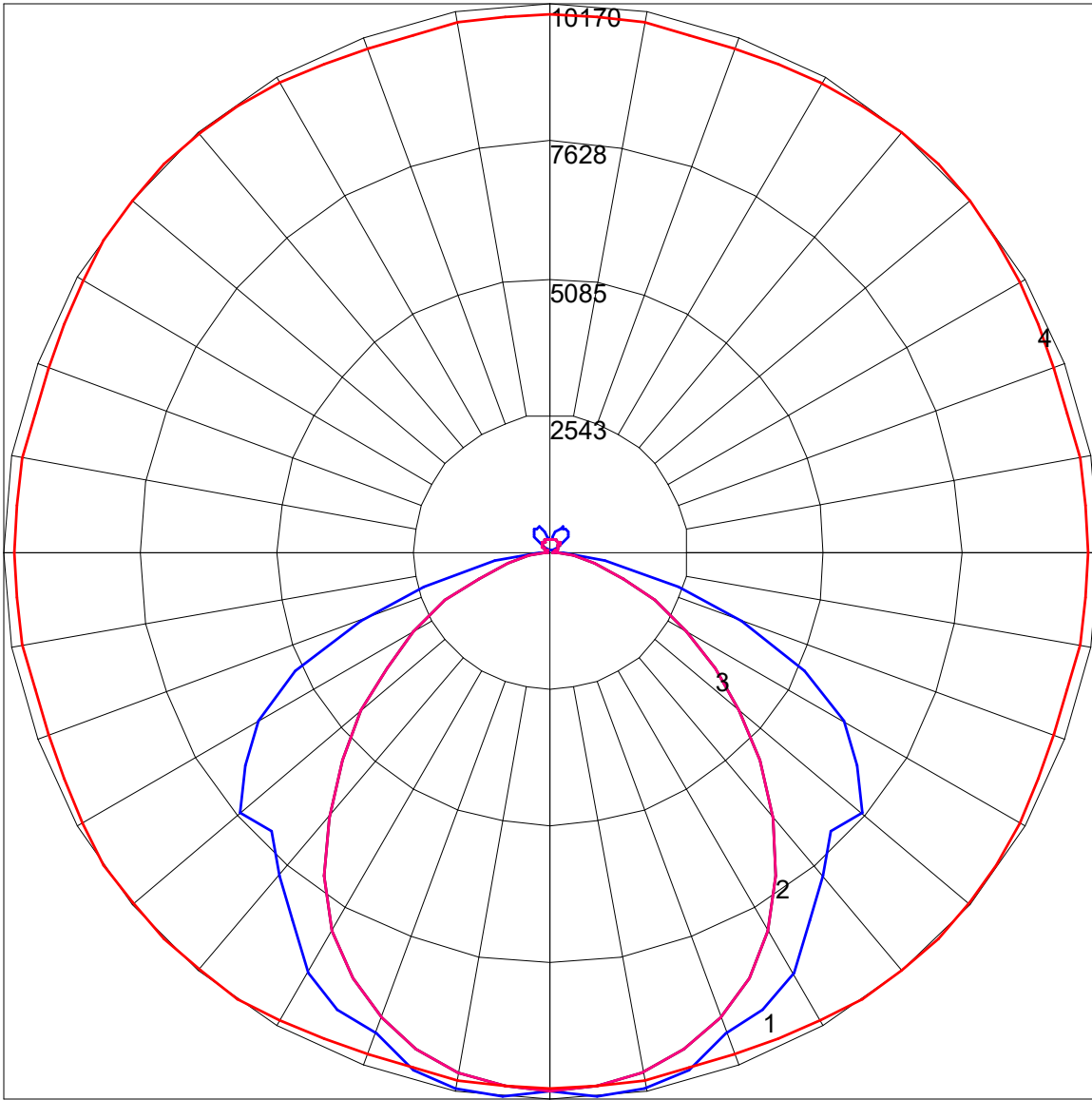
UGR TABLE - CORRECTED

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	24.5	26.0	24.9	26.4	26.9	24.5	26.1	25.0	26.5	26.9
	3H	25.6	27.0	26.1	27.4	27.9	25.7	27.1	26.1	27.5	28.0
	4H	25.9	27.2	26.4	27.6	28.1	26.0	27.3	26.5	27.7	28.2
	6H	26.0	27.2	26.5	27.7	28.2	26.1	27.3	26.6	27.8	28.3
	8H	26.0	27.2	26.5	27.7	28.2	26.1	27.3	26.6	27.7	28.3
	12H	26.0	27.1	26.5	27.6	28.1	26.1	27.2	26.6	27.7	28.2
4H	2H	25.8	27.1	26.3	27.5	28.0	25.8	27.1	26.3	27.6	28.1
	3H	27.5	28.6	28.0	29.1	29.6	27.6	28.7	28.0	29.1	29.7
	4H	28.1	29.1	28.6	29.6	30.1	28.2	29.2	28.7	29.7	30.2
	6H	28.4	29.3	29.0	29.8	30.4	28.5	29.4	29.0	29.9	30.5
	8H	28.5	29.3	29.0	29.8	30.4	28.6	29.4	29.1	29.9	30.5
	12H	28.5	29.2	29.0	29.8	30.3	28.6	29.3	29.1	29.8	30.4
8H	4H	28.6	29.4	29.1	29.9	30.5	28.6	29.4	29.1	30.0	30.5
	6H	29.1	29.7	29.6	30.3	30.9	29.1	29.8	29.7	30.4	31.0
	8H	29.2	29.8	29.8	30.4	31.0	29.3	29.9	29.9	30.5	31.1
	12H	29.3	29.8	29.9	30.4	31.1	29.4	29.9	30.0	30.5	31.2
12H	4H	28.6	29.3	29.1	29.9	30.5	28.6	29.4	29.2	29.9	30.5
	6H	29.1	29.7	29.7	30.3	30.9	29.2	29.8	29.8	30.3	31.0
	8H	29.3	29.8	29.9	30.4	31.1	29.4	29.9	30.0	30.5	31.2

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 10170 Located At Horizontal Angle = 45, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (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.)