



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-7-XX-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111033
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-7-DA-850-4-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI200W/UNV/900C/2DIM+/P6 (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	86991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	164
Total Luminaire Watts	529.44
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)	3.83 ft
Luminous Width (90-270)	1.73 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34223	42403	46505
55	28408	42658	52681
65	21617	46091	51844
75	13140	39234	36378
85	5212	18001	8321

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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	27946	27946	27946	27946	27946	27946	27946	27946	27946	27946
5	27716	27748	27854	27880	27868	27830	27800	27776	27812	27872
10	27266	27376	27398	27354	27376	27518	27764	28066	28256	28296
15	26580	26640	26546	26580	26896	27308	27460	27526	27494	27510
20	25636	25504	25432	25674	25956	26060	26108	26250	26220	26430
25	24334	24120	24130	24388	24476	24538	24600	24832	25084	25066
30	22550	22354	22328	22578	22688	22738	23152	23138	23228	23720
35	20364	20184	20298	20732	20632	20978	20996	21290	21912	22400
40	17770	17716	18194	18364	18492	18702	19100	19766	20422	20892
45	15144	15202	15704	15970	16176	16526	17264	18110	18608	19132
50	12628	12752	13130	13450	13844	14422	15458	16020	16664	17328
55	10264	10350	10606	10980	11534	12518	13284	14018	14920	15842
60	8002	8060	8254	8668	9440	10264	11248	12444	13798	14804
65	5818	5864	6066	6558	7276	8230	9576	10882	12110	12918
70	3828	3880	4122	4624	5484	6572	7758	8940	9926	10572
75	2218	2274	2552	3042	3814	4660	5536	6332	6994	7088
80	1052	1170	1336	1704	2140	2586	2978	3544	3996	4248
85	330	370	450	536	664	834	1030	1242	1350	1360
90	126	126	126	128	132	136	140	144	150	154
95	180	196	154	136	136	138	142	144	148	152
100	244	318	380	290	146	136	136	136	138	140
105	320	428	544	640	546	248	130	124	122	124
110	402	502	720	788	914	910	526	250	128	108
115	484	582	844	968	1016	1134	1220	956	528	282
120	558	650	892	1108	1142	1178	1270	1374	1306	1038
125	616	688	892	1152	1264	1260	1284	1322	1398	1448
130	664	722	894	1112	1294	1354	1342	1336	1334	1374
135	692	726	858	1018	1250	1368	1412	1392	1364	1346
140	692	712	822	968	1098	1304	1398	1444	1424	1392
145	688	686	784	896	1018	1140	1318	1404	1448	1456
150	690	672	752	830	934	1022	1106	1274	1362	1414
155	690	682	718	778	830	924	990	1030	1132	1244
160	674	670	678	722	760	798	852	912	962	1004
165	648	644	648	664	688	716	740	766	796	838
170	642	640	644	644	646	660	676	692	708	722
175	668	668	668	662	662	662	658	658	660	660
180	674	674	674	674	674	674	674	674	674	674

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	27946	27946	27946	27946	27946	27946	27946	27946	27946
5	27930	28032	28140	28230	28314	28390	28436	28440	28424
10	28322	28326	28324	28318	28312	28304	28288	28276	28262
15	27484	27386	27368	27446	27618	27716	27756	27766	27778
20	26692	26674	26646	26662	26658	26592	26568	26580	26590
25	25114	25290	25664	25910	26022	26108	26190	26242	26274
30	24210	24406	24738	24986	25242	25412	25464	25406	25386
35	22980	23432	23538	23618	23668	23638	23618	23536	23512
40	21388	21726	21846	21862	21932	21950	22028	22106	22118
45	19568	19942	20118	20272	20460	20646	20802	20932	20964
50	17800	18180	18878	19688	20412	20902	21154	21276	21336
55	16776	17740	18380	18680	18960	19222	19424	19526	19540
60	15364	16000	16646	17196	17514	17644	17722	17694	17684

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CANDELA TABULATION - (Cont.)

65	13686	14322	14478	14386	14378	14476	14538	14518	14504
70	10840	10982	11032	10878	10700	10586	10496	10362	10258
75	7136	7240	7352	7436	7318	7058	6798	6630	6552
80	4298	4162	3972	3646	3302	3028	2866	2778	2728
85	1300	1184	1038	896	774	704	658	634	624
90	158	160	164	166	168	170	170	170	170
95	154	158	160	162	166	168	168	170	170
100	144	146	148	152	154	156	158	158	158
105	124	126	128	130	132	134	136	136	136
110	108	108	110	110	112	114	116	116	116
115	166	114	98	98	98	100	100	100	102
120	720	448	292	198	170	150	130	120	116
125	1382	1232	1034	844	710	596	482	442	430
130	1406	1438	1444	1398	1338	1268	1220	1182	1172
135	1326	1340	1360	1376	1388	1406	1418	1424	1428
140	1366	1356	1342	1318	1312	1322	1330	1334	1334
145	1442	1426	1400	1376	1370	1370	1370	1370	1368
150	1448	1464	1468	1464	1462	1462	1460	1458	1454
155	1324	1370	1414	1436	1456	1480	1494	1500	1510
160	1032	1112	1170	1224	1280	1314	1346	1360	1368
165	874	908	938	960	980	1002	1020	1026	1030
170	732	740	748	758	762	766	774	782	786
175	660	660	664	670	674	680	688	690	688
180	674	674	674	674	674	674	674	674	674

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	10368.61	N.A.	11.90
0-30	21970.44	N.A.	25.30
0-40	35852.01	N.A.	41.20
0-60	64054.96	N.A.	73.60
0-80	81277.05	N.A.	93.40
0-90	82597.87	N.A.	94.90
10-90	79925.35	N.A.	91.90
20-40	25483.39	N.A.	29.30
20-50	39888.14	N.A.	45.90
40-70	39334.00	N.A.	45.20
60-80	17222.1	N.A.	19.80
70-80	6091.04	N.A.	7.00
80-90	1320.82	N.A.	1.50
90-110	433.83	N.A.	0.50
90-120	927.15	N.A.	1.10
90-130	1805.65	N.A.	2.10
90-150	3553.36	N.A.	4.10
90-180	4393.28	N.A.	5.10
110-180	3959.45	N.A.	4.60
0-180	86991.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2672.51
10-20	7696.1
20-30	11601.83
30-40	13881.57
40-50	14404.75
50-60	13798.2
60-70	11131.05
70-80	6091.04
80-90	1320.82
90-100	175.77
100-110	258.07
110-120	493.32
120-130	878.49
130-140	971.26
140-150	776.45
150-160	530.44
160-170	244.10
170-180	65.39

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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	108	108	108	103	103	103	97	97	97	95
1	107	103	98	95	104	100	96	92	95	92	89	90	87	85	86	84	82	79
2	98	89	82	77	94	87	81	75	82	77	73	78	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	58	53	49	47
5	74	61	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	39	52	44	39	50	43	38	47	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	27
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

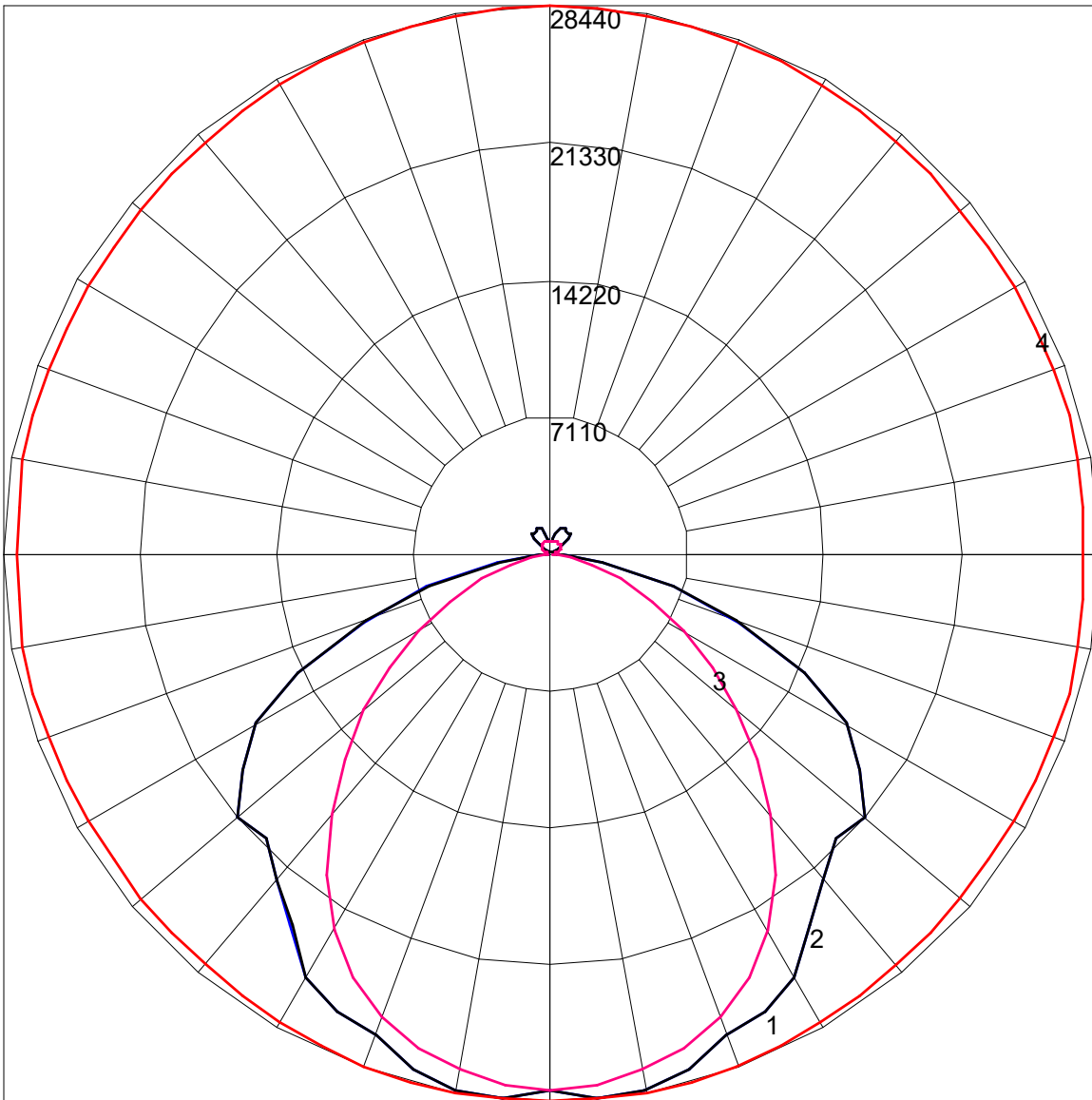
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UGR TABLE - CORRECTED

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	22.5	24.1	23.0	24.5	24.9	26.6	28.2	27.1	28.6	29.0
	3H	23.6	25.0	24.1	25.4	25.9	28.5	29.9	28.9	30.3	30.8
	4H	23.9	25.2	24.3	25.6	26.1	29.0	30.4	29.5	30.8	31.3
	6H	24.0	25.2	24.5	25.7	26.2	29.3	30.5	29.8	31.0	31.5
	8H	24.0	25.2	24.5	25.7	26.2	29.3	30.5	29.8	31.0	31.5
	12H	24.0	25.1	24.5	25.6	26.2	29.3	30.4	29.8	30.9	31.5
4H	2H	24.3	25.6	24.8	26.0	26.5	27.2	28.5	27.6	28.9	29.4
	3H	25.7	26.8	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	31.0	31.7	32.3
8H	4H	27.0	27.8	27.6	28.4	29.0	30.2	31.0	30.8	31.6	32.1
	6H	27.4	28.1	28.0	28.7	29.2	30.7	31.4	31.3	31.9	32.5
	8H	27.5	28.1	28.1	28.7	29.3	30.8	31.4	31.4	32.0	32.6
	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	31.0	30.8	31.5	32.1
	6H	27.6	28.2	28.2	28.7	29.4	30.7	31.3	31.3	31.9	32.5
	8H	27.7	28.2	28.3	28.8	29.5	30.8	31.4	31.4	32.0	32.6

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 28440 Located At Horizontal Angle = 85, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (85 - 265) (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.)