



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-6-XX-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111032
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-6-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	74222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	457.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	1.46 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34886	46418	34034
55	28945	52869	27952
65	22092	52617	20985
75	13605	37624	12485
85	5727	8803	4594

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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	24024	24024	24024	24024	24024	24024	24024	24024	24024	24024
5	23858	23946	23960	23844	23792	23898	24066	24188	24266	24292
10	23516	23568	23462	23784	24146	24284	24278	24248	24230	24188
15	22936	22800	23066	23584	23552	23576	23502	23588	23724	23718
20	22058	21836	22296	22440	22560	22820	22760	22716	22704	22670
25	20912	20766	21036	21180	21464	21420	21832	22174	22328	22382
30	19348	19238	19528	19838	19814	20604	21066	21454	21680	21714
35	17470	17494	17802	18004	18656	19562	20076	20216	20188	20174
40	15292	15626	15898	16310	17392	18200	18656	18742	18832	18902
45	13028	13534	13892	14736	15844	16716	17200	17466	17686	17752
50	10870	11340	11878	13140	14254	15188	15980	17162	17964	18116
55	8826	9156	9932	11336	12720	14156	15646	16196	16586	16672
60	6878	7122	8074	9580	11692	13086	14162	14952	15150	15164
65	5018	5228	6228	8112	10274	11624	12446	12386	12584	12558
70	3316	3560	4646	6592	8466	9334	9560	9436	9174	8954
75	1938	2208	3232	4756	6062	6170	6356	6390	6032	5822
80	940	1220	1876	2602	3480	3768	3498	2956	2606	2484
85	306	412	612	928	1226	1186	970	740	616	582
90	106	108	114	120	128	136	140	144	146	148
95	122	118	116	120	126	132	138	142	146	146
100	154	196	118	116	120	124	130	134	138	140
105	190	306	310	112	108	110	114	118	122	124
110	236	422	540	354	104	96	98	102	106	106
115	286	510	658	780	386	128	88	90	92	94
120	348	568	812	918	934	548	224	142	108	96
125	406	600	886	938	1028	1030	836	586	392	356
130	456	630	928	1084	1026	1088	1098	1074	1022	998
135	494	646	920	1108	1106	1062	1112	1110	1124	1136
140	516	636	856	1088	1186	1142	1088	1102	1122	1128
145	526	598	756	1046	1144	1230	1232	1164	1142	1138
150	536	582	742	912	1110	1176	1234	1282	1302	1306
155	548	574	700	776	956	1108	1174	1212	1230	1238
160	544	564	612	718	778	880	1012	1098	1150	1158
165	530	544	558	614	684	732	774	818	844	854
170	532	534	546	554	574	608	642	662	676	680
175	556	554	550	554	558	562	564	566	568	574
180	558	558	558	558	558	558	558	558	558	558

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	24024	24024	24024	24024	24024	24024	24024	24024	24024
5	24266	24188	24066	23898	23792	23844	23960	23946	23858
10	24230	24248	24278	24284	24146	23784	23462	23568	23516
15	23724	23588	23502	23576	23552	23584	23066	22800	22936
20	22704	22716	22760	22820	22560	22440	22296	21836	22058
25	22328	22174	21832	21420	21464	21180	21036	20766	20912
30	21680	21454	21066	20604	19814	19838	19528	19238	19348
35	20188	20216	20076	19562	18656	18004	17802	17494	17470
40	18832	18742	18656	18200	17392	16310	15898	15626	15292
45	17686	17466	17200	16716	15844	14736	13892	13534	13028
50	17964	17162	15980	15188	14254	13140	11878	11340	10870
55	16586	16196	15646	14156	12720	11336	9932	9156	8826
60	15150	14952	14162	13086	11692	9580	8074	7122	6878

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CANDELA TABULATION - (Cont.)

65	12584	12386	12446	11624	10274	8112	6228	5228	5018
70	9174	9436	9560	9334	8466	6592	4646	3560	3316
75	6032	6390	6356	6170	6062	4756	3232	2208	1938
80	2606	2956	3498	3768	3480	2602	1876	1220	940
85	616	740	970	1186	1226	928	612	412	306
90	146	144	140	136	128	120	114	108	106
95	146	142	138	132	126	120	116	118	122
100	138	134	130	124	120	116	118	196	154
105	122	118	114	110	108	112	310	306	190
110	106	102	98	96	104	354	540	422	236
115	92	90	88	128	386	780	658	510	286
120	108	142	224	548	934	918	812	568	348
125	392	586	836	1030	1028	938	886	600	406
130	1022	1074	1098	1088	1026	1084	928	630	456
135	1124	1110	1112	1062	1106	1108	920	646	494
140	1122	1102	1088	1142	1186	1088	856	636	516
145	1142	1164	1232	1230	1144	1046	756	598	526
150	1302	1282	1234	1176	1110	912	742	582	536
155	1230	1212	1174	1108	956	776	700	574	548
160	1150	1098	1012	880	778	718	612	564	544
165	844	818	774	732	684	614	558	544	530
170	676	662	642	608	574	554	546	534	532
175	568	566	564	562	558	554	550	554	556
180	558	558	558	558	558	558	558	558	558

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8886.22	N.A.	12.00
0-30	18814.52	N.A.	25.30
0-40	30688.57	N.A.	41.30
0-60	54765.31	N.A.	73.80
0-80	69612.02	N.A.	93.80
0-90	70795.91	N.A.	95.40
10-90	68505.09	N.A.	92.30
20-40	21802.35	N.A.	29.40
20-50	34106.84	N.A.	46.00
40-70	33625.43	N.A.	45.30
60-80	14846.71	N.A.	20.00
70-80	5298.02	N.A.	7.10
80-90	1183.89	N.A.	1.60
90-110	323.22	N.A.	0.40
90-120	661.33	N.A.	0.90
90-130	1318.71	N.A.	1.80
90-150	2725.17	N.A.	3.70
90-180	3425.67	N.A.	4.60
110-180	3102.45	N.A.	4.20
0-180	74221.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2290.82
10-20	6595.4
20-30	9928.3
30-40	11874.05
40-50	12304.5
50-60	11772.25
60-70	9548.69
70-80	5298.02
80-90	1183.89
90-100	143.35
100-110	179.87
110-120	338.11
120-130	657.38
130-140	768.19
140-150	638.27
150-160	441.26
160-170	204.36
170-180	54.88

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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	95	104	100	96	93	95	92	89	90	88	85	86	84	82	79
2	98	89	82	76	94	87	81	75	83	77	73	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	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	43	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	39	34	43	38	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	35	29	24	34	28	24	22

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UGR TABLE - CORRECTED

Reflectances

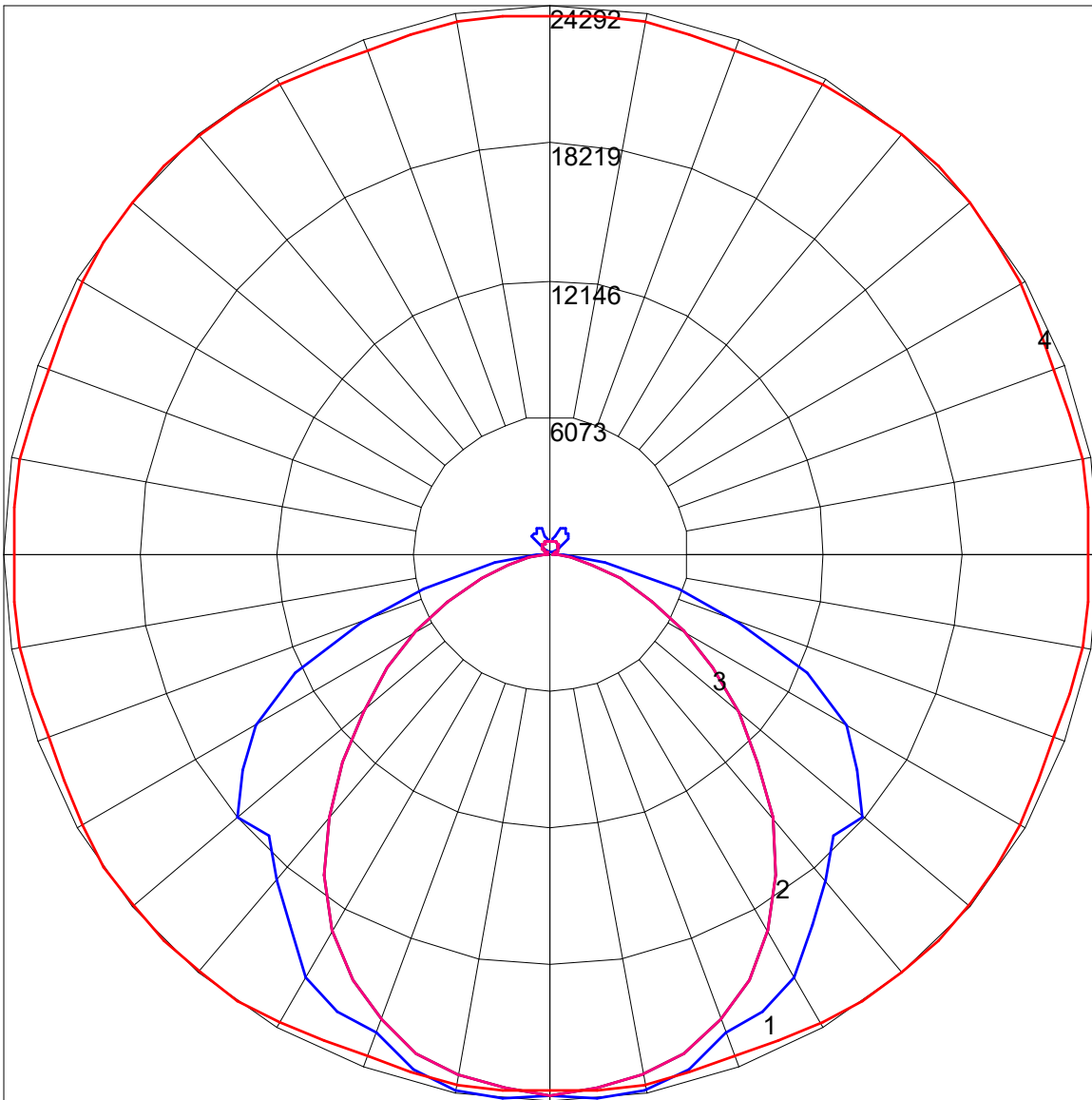
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.6	26.1	25.0	26.5	27.0	24.7	26.2	25.1	26.6	27.1
	3H	25.7	27.1	26.2	27.5	28.0	25.8	27.2	26.3	27.6	28.1
	4H	26.0	27.3	26.5	27.7	28.2	26.1	27.4	26.6	27.9	28.4
	6H	26.1	27.3	26.6	27.8	28.3	26.2	27.4	26.7	27.9	28.4
	8H	26.1	27.3	26.6	27.7	28.3	26.2	27.4	26.7	27.9	28.4
	12H	26.1	27.2	26.6	27.7	28.2	26.2	27.3	26.7	27.8	28.4
4H	2H	25.9	27.2	26.4	27.7	28.2	26.0	27.3	26.5	27.7	28.2
	3H	27.6	28.7	28.1	29.2	29.7	27.7	28.8	28.2	29.3	29.8
	4H	28.2	29.2	28.7	29.7	30.3	28.3	29.3	28.8	29.8	30.4
	6H	28.6	29.4	29.1	30.0	30.5	28.7	29.5	29.2	30.1	30.6
	8H	28.6	29.4	29.1	29.9	30.5	28.7	29.5	29.3	30.1	30.6
	12H	28.6	29.3	29.1	29.9	30.5	28.7	29.4	29.3	30.0	30.6
8H	4H	28.7	29.5	29.2	30.0	30.6	28.8	29.6	29.3	30.1	30.7
	6H	29.2	29.9	29.8	30.5	31.1	29.3	30.0	29.9	30.6	31.2
	8H	29.4	30.0	30.0	30.6	31.2	29.5	30.1	30.1	30.7	31.3
	12H	29.4	30.0	30.0	30.5	31.2	29.5	30.1	30.1	30.7	31.3
12H	4H	28.7	29.5	29.3	30.0	30.6	28.8	29.5	29.4	30.1	30.7
	6H	29.3	29.9	29.9	30.4	31.1	29.4	30.0	30.0	30.5	31.2
	8H	29.4	30.0	30.0	30.6	31.2	29.6	30.1	30.1	30.7	31.3

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 24292 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.)