



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-6-XX-850-2-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-850-2-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	37111
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	228.95
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)	1.92 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	34270	45811	33945
55	28255	51958	27879
65	21345	51362	20931
75	12863	36230	12453
85	4962	8083	4582

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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	12012	12012	12012	12012	12012	12012	12012	12012	12012	12012
5	11929	11973	11980	11922	11896	11949	12033	12094	12133	12146
10	11758	11784	11731	11892	12073	12142	12139	12124	12115	12094
15	11468	11400	11533	11792	11776	11788	11751	11794	11862	11859
20	11029	10918	11148	11220	11280	11410	11380	11358	11352	11335
25	10456	10383	10518	10590	10732	10710	10916	11087	11164	11191
30	9674	9619	9764	9919	9907	10302	10533	10727	10840	10857
35	8735	8747	8901	9002	9328	9781	10038	10108	10094	10087
40	7646	7813	7949	8155	8696	9100	9328	9371	9416	9451
45	6514	6767	6946	7368	7922	8358	8600	8733	8843	8876
50	5435	5670	5939	6570	7127	7594	7990	8581	8982	9058
55	4413	4578	4966	5668	6360	7078	7823	8098	8293	8336
60	3439	3561	4037	4790	5846	6543	7081	7476	7575	7582
65	2509	2614	3114	4056	5137	5812	6223	6193	6292	6279
70	1658	1780	2323	3296	4233	4667	4780	4718	4587	4477
75	969	1104	1616	2378	3031	3085	3178	3195	3016	2911
80	470	610	938	1301	1740	1884	1749	1478	1303	1242
85	153	206	306	464	613	593	485	370	308	291
90	53	54	57	60	64	68	70	72	73	74
95	61	59	58	60	63	66	69	71	73	73
100	77	98	59	58	60	62	65	67	69	70
105	95	153	155	56	54	55	57	59	61	62
110	118	211	270	177	52	48	49	51	53	53
115	143	255	329	390	193	64	44	45	46	47
120	174	284	406	459	467	274	112	71	54	48
125	203	300	443	469	514	515	418	293	196	178
130	228	315	464	542	513	544	549	537	511	499
135	247	323	460	554	553	531	556	555	562	568
140	258	318	428	544	593	571	544	551	561	564
145	263	299	378	523	572	615	616	582	571	569
150	268	291	371	456	555	588	617	641	651	653
155	274	287	350	388	478	554	587	606	615	619
160	272	282	306	359	389	440	506	549	575	579
165	265	272	279	307	342	366	387	409	422	427
170	266	267	273	277	287	304	321	331	338	340
175	278	277	275	277	279	281	282	283	284	287
180	279	279	279	279	279	279	279	279	279	279

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	12012	12012	12012	12012	12012	12012	12012	12012	12012
5	12133	12094	12033	11949	11896	11922	11980	11973	11929
10	12115	12124	12139	12142	12073	11892	11731	11784	11758
15	11862	11794	11751	11788	11776	11792	11533	11400	11468
20	11352	11358	11380	11410	11280	11220	11148	10918	11029
25	11164	11087	10916	10710	10732	10590	10518	10383	10456
30	10840	10727	10533	10302	9907	9919	9764	9619	9674
35	10094	10108	10038	9781	9328	9002	8901	8747	8735
40	9416	9371	9328	9100	8696	8155	7949	7813	7646
45	8843	8733	8600	8358	7922	7368	6946	6767	6514
50	8982	8581	7990	7594	7127	6570	5939	5670	5435
55	8293	8098	7823	7078	6360	5668	4966	4578	4413
60	7575	7476	7081	6543	5846	4790	4037	3561	3439

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65	6292	6193	6223	5812	5137	4056	3114	2614	2509
70	4587	4718	4780	4667	4233	3296	2323	1780	1658
75	3016	3195	3178	3085	3031	2378	1616	1104	969
80	1303	1478	1749	1884	1740	1301	938	610	470
85	308	370	485	593	613	464	306	206	153
90	73	72	70	68	64	60	57	54	53
95	73	71	69	66	63	60	58	59	61
100	69	67	65	62	60	58	59	98	77
105	61	59	57	55	54	56	155	153	95
110	53	51	49	48	52	177	270	211	118
115	46	45	44	64	193	390	329	255	143
120	54	71	112	274	467	459	406	284	174
125	196	293	418	515	514	469	443	300	203
130	511	537	549	544	513	542	464	315	228
135	562	555	556	531	553	554	460	323	247
140	561	551	544	571	593	544	428	318	258
145	571	582	616	615	572	523	378	299	263
150	651	641	617	588	555	456	371	291	268
155	615	606	587	554	478	388	350	287	274
160	575	549	506	440	389	359	306	282	272
165	422	409	387	366	342	307	279	272	265
170	338	331	321	304	287	277	273	267	266
175	284	283	282	281	279	277	275	277	278
180	279	279	279	279	279	279	279	279	279

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PHOTOMETRIC FILENAME : E-6-XX-850-2-X-CA HO5.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4443.11	N.A.	12.00
0-30	9407.26	N.A.	25.30
0-40	15344.28	N.A.	41.30
0-60	27382.66	N.A.	73.80
0-80	34806.01	N.A.	93.80
0-90	35397.96	N.A.	95.40
10-90	34252.54	N.A.	92.30
20-40	10901.17	N.A.	29.40
20-50	17053.42	N.A.	46.00
40-70	16812.72	N.A.	45.30
60-80	7423.35	N.A.	20.00
70-80	2649.01	N.A.	7.10
80-90	591.95	N.A.	1.60
90-110	161.61	N.A.	0.40
90-120	330.66	N.A.	0.90
90-130	659.36	N.A.	1.80
90-150	1362.59	N.A.	3.70
90-180	1712.83	N.A.	4.60
110-180	1551.22	N.A.	4.20
0-180	37110.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1145.41
10-20	3297.7
20-30	4964.15
30-40	5937.03
40-50	6152.25
50-60	5886.12
60-70	4774.34
70-80	2649.01
80-90	591.95
90-100	71.67
100-110	89.94
110-120	169.05
120-130	328.69
130-140	384.09
140-150	319.14
150-160	220.63
160-170	102.18
170-180	27.44

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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	10
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

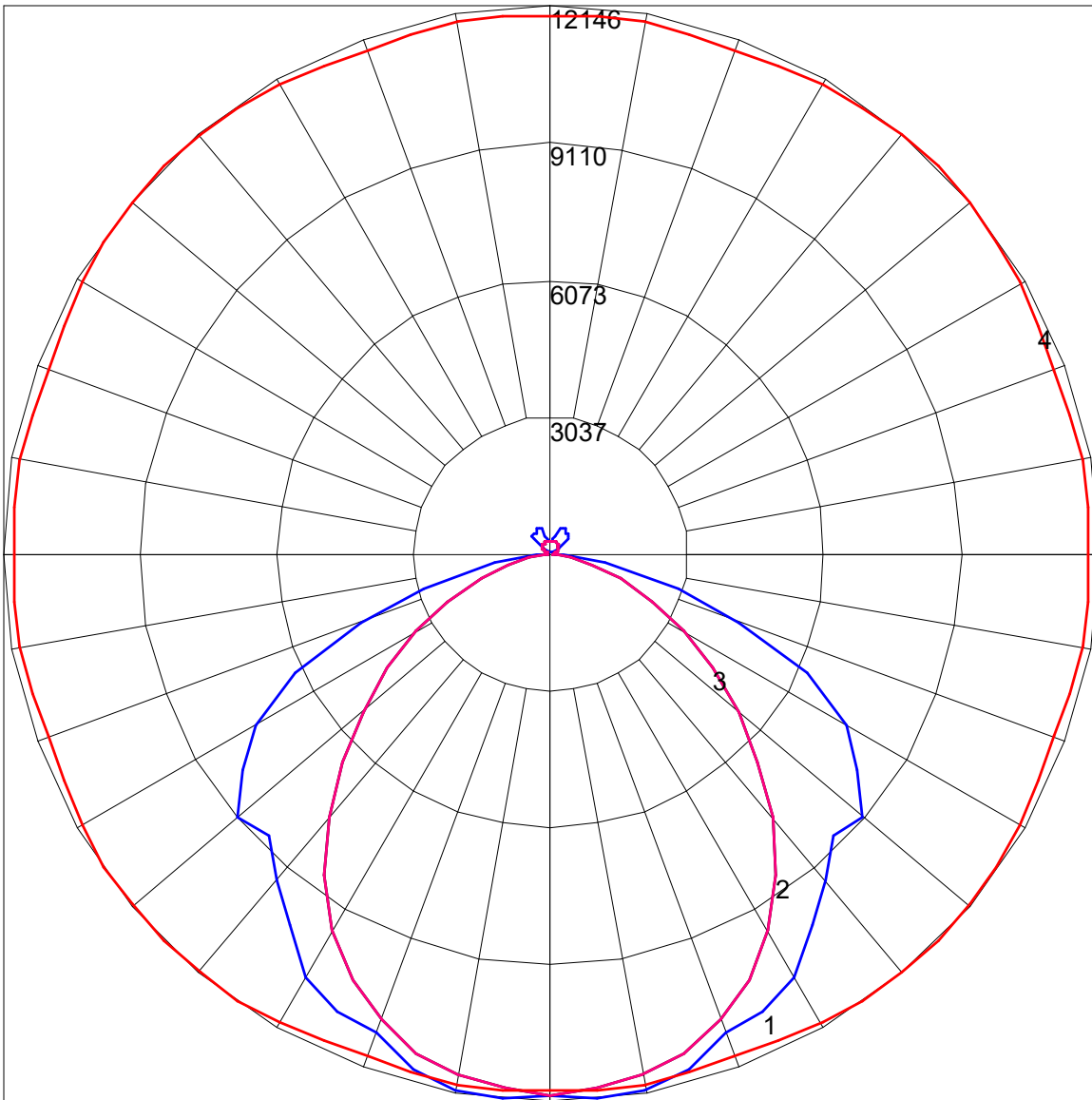
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UGR TABLE - CORRECTED

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		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.6	26.1	25.0	26.5	27.0	24.6	26.1	25.0	26.6	27.0
	3H	25.7	27.1	26.1	27.5	28.0	25.7	27.1	26.2	27.5	28.0
	4H	26.0	27.3	26.4	27.7	28.2	26.0	27.3	26.5	27.8	28.3
	6H	26.1	27.3	26.6	27.7	28.2	26.1	27.3	26.6	27.8	28.3
	8H	26.1	27.2	26.6	27.7	28.2	26.1	27.3	26.6	27.8	28.3
	12H	26.1	27.2	26.6	27.6	28.2	26.1	27.2	26.6	27.7	28.2
4H	2H	25.9	27.2	26.4	27.6	28.1	25.9	27.2	26.4	27.7	28.2
	3H	27.6	28.7	28.1	29.2	29.7	27.6	28.7	28.1	29.2	29.7
	4H	28.2	29.2	28.7	29.7	30.2	28.2	29.2	28.7	29.7	30.3
	6H	28.5	29.4	29.0	29.9	30.5	28.6	29.4	29.1	29.9	30.5
	8H	28.5	29.4	29.1	29.9	30.5	28.6	29.4	29.1	29.9	30.5
	12H	28.5	29.3	29.1	29.8	30.4	28.6	29.3	29.1	29.9	30.5
8H	4H	28.6	29.5	29.2	30.0	30.6	28.7	29.5	29.2	30.0	30.6
	6H	29.2	29.8	29.7	30.4	31.0	29.2	29.9	29.8	30.4	31.0
	8H	29.3	29.9	29.9	30.5	31.1	29.4	29.9	29.9	30.5	31.1
	12H	29.4	29.9	29.9	30.5	31.1	29.4	29.9	30.0	30.5	31.2
12H	4H	28.7	29.4	29.2	30.0	30.6	28.7	29.4	29.3	30.0	30.6
	6H	29.2	29.8	29.8	30.4	31.0	29.3	29.8	29.8	30.4	31.0
	8H	29.4	29.9	30.0	30.5	31.2	29.4	29.9	30.0	30.5	31.2

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 12146 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.)