



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : E-5-XX-850-4-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-850-4-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	62225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	370.8
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)	3.83 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	35490	46213	34343
55	29607	52788	28268
65	22853	52292	21351
75	14264	37279	12740
85	6187	7879	4656

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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>
<b>0</b>	20052	20052	20052	20052	20052	20052	20052	20052	20052	20052
<b>5</b>	19974	19966	19948	19874	19906	20012	20136	20252	20322	20340
<b>10</b>	19666	19642	19580	19878	20160	20276	20326	20286	20264	20282
<b>15</b>	19182	19032	19304	19632	19716	19678	19636	19788	19860	19896
<b>20</b>	18460	18248	18618	18718	18846	19078	19006	19070	18980	18998
<b>25</b>	17500	17368	17568	17672	17960	17962	18278	18562	18672	18736
<b>30</b>	16224	16124	16306	16604	16662	17254	17554	17942	18100	18038
<b>35</b>	14650	14648	14892	15070	15684	16316	16706	16858	16828	16758
<b>40</b>	12860	13104	13344	13714	14576	15192	15558	15606	15642	15670
<b>45</b>	10984	11348	11662	12412	13266	13944	14334	14526	14644	14732
<b>50</b>	9188	9514	9986	11068	11918	12698	13290	14316	14974	15114
<b>55</b>	7482	7712	8352	9552	10618	11884	13084	13474	13794	13908
<b>60</b>	5856	6028	6812	8074	9802	10972	11848	12454	12620	12560
<b>65</b>	4302	4462	5272	6870	8646	9760	10430	10342	10498	10466
<b>70</b>	2864	3056	3946	5596	7136	7858	8030	7888	7662	7560
<b>75</b>	1684	1910	2780	4062	5130	5206	5348	5404	5080	4874
<b>80</b>	826	1058	1620	2244	2964	3222	2962	2518	2202	2096
<b>85</b>	274	372	542	834	1084	1022	814	592	482	452
<b>90</b>	90	92	96	102	108	114	118	120	122	122
<b>95</b>	108	100	100	102	106	112	116	118	122	122
<b>100</b>	144	192	104	100	102	106	110	114	116	118
<b>105</b>	180	286	290	96	94	94	96	100	106	106
<b>110</b>	228	384	502	290	88	84	86	88	90	92
<b>115</b>	278	454	624	714	298	114	76	78	80	82
<b>120</b>	330	484	690	804	834	434	192	126	92	82
<b>125</b>	372	506	808	880	894	914	700	444	300	276
<b>130</b>	414	536	826	860	928	934	944	928	864	832
<b>135</b>	440	528	766	970	932	944	948	924	926	934
<b>140</b>	450	522	686	948	970	946	974	944	946	948
<b>145</b>	458	510	682	846	998	1006	944	980	1004	1002
<b>150</b>	466	500	634	722	908	1014	1050	1028	996	982
<b>155</b>	470	486	564	704	752	886	980	1030	1058	1064
<b>160</b>	460	462	520	604	700	722	790	860	904	922
<b>165</b>	444	444	472	518	572	644	700	720	738	744
<b>170</b>	444	444	446	464	492	516	538	554	574	582
<b>175</b>	468	466	462	458	454	456	460	464	474	470
<b>180</b>	466	466	466	466	466	466	466	466	466	466

**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>
<b>0</b>	20052	20052	20052	20052	20052	20052	20052	20052	20052
<b>5</b>	20322	20252	20136	20012	19906	19874	19948	19966	19974
<b>10</b>	20264	20286	20326	20276	20160	19878	19580	19642	19666
<b>15</b>	19860	19788	19636	19678	19716	19632	19304	19032	19182
<b>20</b>	18980	19070	19006	19078	18846	18718	18618	18248	18460
<b>25</b>	18672	18562	18278	17962	17960	17672	17568	17368	17500
<b>30</b>	18100	17942	17554	17254	16662	16604	16306	16124	16224
<b>35</b>	16828	16858	16706	16316	15684	15070	14892	14648	14650
<b>40</b>	15642	15606	15558	15192	14576	13714	13344	13104	12860
<b>45</b>	14644	14526	14334	13944	13266	12412	11662	11348	10984
<b>50</b>	14974	14316	13290	12698	11918	11068	9986	9514	9188
<b>55</b>	13794	13474	13084	11884	10618	9552	8352	7712	7482
<b>60</b>	12620	12454	11848	10972	9802	8074	6812	6028	5856

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	10498	10342	10430	9760	8646	6870	5272	4462	4302
<b>70</b>	7662	7888	8030	7858	7136	5596	3946	3056	2864
<b>75</b>	5080	5404	5348	5206	5130	4062	2780	1910	1684
<b>80</b>	2202	2518	2962	3222	2964	2244	1620	1058	826
<b>85</b>	482	592	814	1022	1084	834	542	372	274
<b>90</b>	122	120	118	114	108	102	96	92	90
<b>95</b>	122	118	116	112	106	102	100	100	108
<b>100</b>	116	114	110	106	102	100	104	192	144
<b>105</b>	106	100	96	94	94	96	290	286	180
<b>110</b>	90	88	86	84	88	290	502	384	228
<b>115</b>	80	78	76	114	298	714	624	454	278
<b>120</b>	92	126	192	434	834	804	690	484	330
<b>125</b>	300	444	700	914	894	880	808	506	372
<b>130</b>	864	928	944	934	928	860	826	536	414
<b>135</b>	926	924	948	944	932	970	766	528	440
<b>140</b>	946	944	974	946	970	948	686	522	450
<b>145</b>	1004	980	944	1006	998	846	682	510	458
<b>150</b>	996	1028	1050	1014	908	722	634	500	466
<b>155</b>	1058	1030	980	886	752	704	564	486	470
<b>160</b>	904	860	790	722	700	604	520	462	460
<b>165</b>	738	720	700	644	572	518	472	444	444
<b>170</b>	574	554	538	516	492	464	446	444	444
<b>175</b>	474	464	460	456	454	458	462	466	468
<b>180</b>	466	466	466	466	466	466	466	466	466

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7428.06	N.A.	11.90
0-30	15731.7	N.A.	25.30
0-40	25655.08	N.A.	41.20
0-60	45791.14	N.A.	73.60
0-80	58296.44	N.A.	93.70
0-90	59307.65	N.A.	95.30
10-90	57393.34	N.A.	92.20
20-40	18227.02	N.A.	29.30
20-50	28509.58	N.A.	45.80
40-70	28156.68	N.A.	45.20
60-80	12505.29	N.A.	20.10
70-80	4484.67	N.A.	7.20
80-90	1011.22	N.A.	1.60
90-110	282.40	N.A.	0.50
90-120	580.94	N.A.	0.90
90-130	1147.54	N.A.	1.80
90-150	2334.01	N.A.	3.80
90-180	2917.21	N.A.	4.70
110-180	2634.8	N.A.	4.20
0-180	62224.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1914.31
10-20	5513.76
20-30	8303.64
30-40	9923.38
40-50	10282.56
50-60	9853.51
60-70	8020.62
70-80	4484.67
80-90	1011.22
90-100	122.28
100-110	160.12
110-120	298.54
120-130	566.60
130-140	652.25
140-150	534.23
150-160	365.24
160-170	172.26
170-180	45.70

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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	107	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

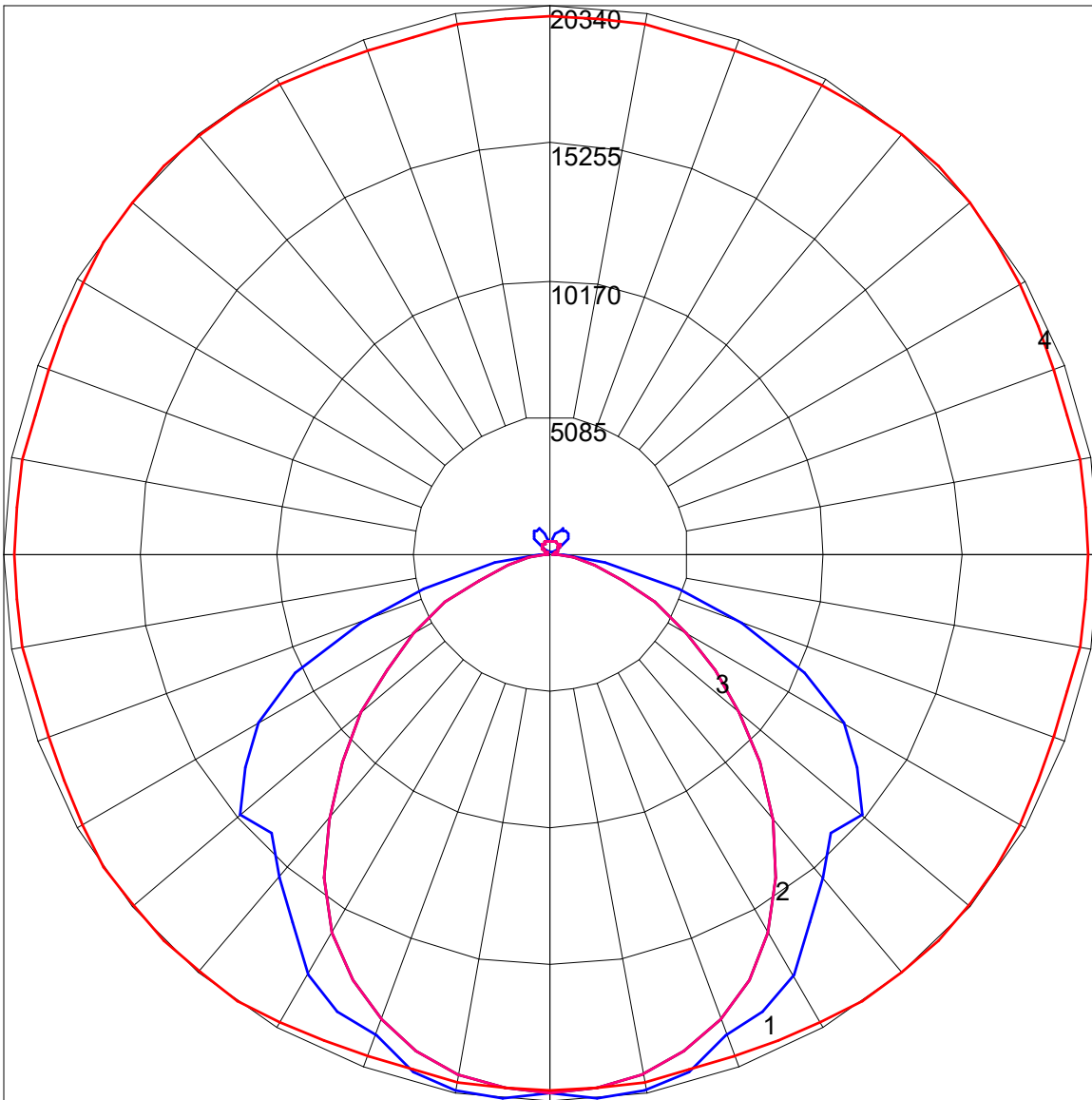
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**UGR TABLE - CORRECTED**

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	26.5	26.9	24.6	26.1	25.1	26.6	27.0
	3H	25.6	27.0	26.1	27.5	27.9	25.8	27.2	26.2	27.6	28.1
	4H	25.9	27.2	26.4	27.7	28.2	26.1	27.4	26.6	27.8	28.3
	6H	26.0	27.2	26.5	27.7	28.2	26.2	27.4	26.7	27.9	28.4
	8H	26.0	27.2	26.5	27.7	28.2	26.2	27.4	26.7	27.9	28.4
	12H	26.0	27.1	26.5	27.6	28.2	26.2	27.3	26.7	27.8	28.3
4H	2H	25.8	27.1	26.3	27.6	28.1	25.9	27.2	26.4	27.6	28.1
	3H	27.5	28.6	28.0	29.1	29.7	27.7	28.7	28.1	29.2	29.8
	4H	28.1	29.1	28.7	29.6	30.2	28.3	29.3	28.8	29.8	30.3
	6H	28.5	29.3	29.0	29.9	30.4	28.6	29.5	29.2	30.0	30.6
	8H	28.5	29.3	29.1	29.9	30.4	28.7	29.5	29.2	30.0	30.6
	12H	28.5	29.2	29.1	29.8	30.4	28.7	29.4	29.2	30.0	30.6
8H	4H	28.6	29.4	29.2	30.0	30.5	28.7	29.5	29.3	30.1	30.6
	6H	29.1	29.8	29.7	30.4	31.0	29.3	29.9	29.8	30.5	31.1
	8H	29.3	29.9	29.9	30.5	31.1	29.4	30.0	30.0	30.6	31.2
	12H	29.4	29.9	29.9	30.5	31.1	29.5	30.0	30.1	30.6	31.3
12H	4H	28.6	29.4	29.2	29.9	30.5	28.8	29.5	29.3	30.0	30.6
	6H	29.2	29.8	29.8	30.3	31.0	29.3	29.9	29.9	30.5	31.1
	8H	29.4	29.9	30.0	30.5	31.1	29.5	30.0	30.1	30.6	31.3

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 20340 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.)