



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : E-8-XX-850-4-X-CA HO5.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L072111034  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUE DATE] 9/8/2021  
 [MANUFAC] LUX DYNAMICS  
 [LUMCAT] E-8-TA-850-4-U10 HO5  
 [LUMINAIRE] LED LUMINAIRE  
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2 (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	99511
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	164
Total Luminaire Watts	605.96
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)	1.96 ft
Luminous Height	0.06 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34324	43040	46958
55	28470	43312	53784
65	21632	46485	53191
75	13094	39746	37613
85	5242	18566	8718

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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>	32162	32162	32162	32162	32162	32162	32162	32162	32162	32162
<b>5</b>	32032	32054	32094	32056	32002	32012	32026	31998	32014	32068
<b>10</b>	31498	31512	31448	31484	31528	31702	31954	32236	32306	32340
<b>15</b>	30628	30600	30478	30582	30956	31310	31454	31604	31532	31470
<b>20</b>	29366	29266	29184	29512	29680	29880	29918	30068	30178	30342
<b>25</b>	27802	27662	27718	27912	27996	28078	28236	28480	28608	28624
<b>30</b>	25718	25556	25608	25814	25936	26102	26456	26428	26542	27098
<b>35</b>	23168	23064	23238	23652	23668	23920	23992	24370	25046	25674
<b>40</b>	20196	20262	20712	21028	21120	21336	21858	22620	23330	23858
<b>45</b>	17208	17378	17890	18244	18462	18912	19754	20614	21224	21940
<b>50</b>	14378	14540	14958	15364	15804	16596	17608	18346	19094	19816
<b>55</b>	11654	11806	12100	12562	13240	14270	15146	15986	17076	18152
<b>60</b>	9078	9164	9414	9934	10704	11680	12780	14136	15760	16878
<b>65</b>	6596	6654	6902	7470	8338	9390	10904	12426	13736	14676
<b>70</b>	4336	4408	4714	5288	6240	7444	8770	10126	11256	12026
<b>75</b>	2504	2582	2892	3482	4294	5290	6276	7230	7938	8058
<b>80</b>	1192	1280	1512	1926	2422	2908	3384	4038	4528	4844
<b>85</b>	376	416	508	614	760	946	1178	1408	1536	1552
<b>90</b>	146	146	146	150	152	158	162	168	172	178
<b>95</b>	200	218	180	158	158	160	164	166	170	174
<b>100</b>	264	348	412	332	174	158	158	158	162	164
<b>105</b>	338	476	596	706	634	304	158	144	142	144
<b>110</b>	426	572	796	878	998	1040	648	292	152	126
<b>115</b>	518	660	942	1086	1134	1244	1364	1120	662	352
<b>120</b>	600	728	1012	1242	1290	1320	1392	1530	1510	1272
<b>125</b>	674	794	1054	1316	1406	1418	1442	1452	1552	1640
<b>130</b>	730	826	1048	1286	1462	1494	1502	1506	1492	1518
<b>135</b>	766	834	1014	1226	1372	1524	1548	1552	1538	1528
<b>140</b>	770	824	958	1130	1294	1420	1552	1576	1576	1564
<b>145</b>	764	810	900	1060	1196	1316	1402	1550	1586	1588
<b>150</b>	768	800	854	980	1094	1200	1284	1318	1456	1560
<b>155</b>	774	794	828	884	992	1066	1138	1210	1272	1300
<b>160</b>	760	772	796	822	864	930	988	1036	1088	1140
<b>165</b>	730	738	752	772	788	812	844	882	918	948
<b>170</b>	728	730	734	746	756	766	776	788	800	818
<b>175</b>	754	754	754	754	754	756	758	764	768	772
<b>180</b>	770	770	770	770	770	770	770	770	770	770

**Vert. 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>	32162	32162	32162	32162	32162	32162	32162	32162	32162
<b>5</b>	32138	32234	32338	32450	32524	32582	32616	32650	32682
<b>10</b>	32454	32520	32494	32462	32432	32400	32384	32384	32394
<b>15</b>	31468	31420	31554	31600	31602	31636	31676	31692	31700
<b>20</b>	30432	30460	30466	30476	30430	30448	30470	30468	30470
<b>25</b>	28742	29002	29406	29614	29812	29976	30038	30080	30086
<b>30</b>	27676	27992	28296	28704	29000	29072	29110	29124	29122
<b>35</b>	26304	26768	26940	27158	27176	27134	27134	27172	27190
<b>40</b>	24486	24958	25070	25106	25154	25202	25308	25396	25408
<b>45</b>	22432	22838	23112	23230	23406	23600	23736	23848	23888
<b>50</b>	20412	20820	21522	22372	23288	23912	24318	24460	24486
<b>55</b>	19144	20242	21000	21372	21770	22064	22308	22446	22476
<b>60</b>	17548	18290	19038	19648	20044	20204	20252	20218	20198

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	15570	16296	16530	16446	16454	16596	16700	16714	16722
<b>70</b>	12366	12538	12608	12476	12304	12138	11984	11880	11820
<b>75</b>	8132	8272	8442	8568	8438	8162	7872	7664	7572
<b>80</b>	4922	4798	4572	4194	3828	3540	3342	3238	3190
<b>85</b>	1490	1372	1220	1046	900	812	758	728	716
<b>90</b>	182	184	188	190	192	194	196	196	196
<b>95</b>	178	180	184	186	188	190	192	194	194
<b>100</b>	166	168	170	174	176	178	180	180	182
<b>105</b>	144	146	148	150	152	154	156	158	158
<b>110</b>	126	126	126	128	130	132	132	134	134
<b>115</b>	200	136	114	114	116	116	116	118	118
<b>120</b>	918	602	366	248	208	176	152	138	136
<b>125</b>	1600	1468	1264	1054	902	744	636	570	552
<b>130</b>	1578	1630	1652	1622	1562	1500	1454	1422	1412
<b>135</b>	1498	1496	1522	1548	1566	1592	1614	1624	1630
<b>140</b>	1556	1550	1530	1496	1478	1480	1488	1492	1488
<b>145</b>	1602	1602	1582	1570	1566	1566	1568	1566	1562
<b>150</b>	1588	1608	1608	1616	1618	1626	1632	1636	1642
<b>155</b>	1404	1480	1542	1582	1606	1620	1636	1650	1654
<b>160</b>	1192	1228	1278	1298	1338	1382	1418	1444	1448
<b>165</b>	978	1004	1038	1070	1092	1106	1114	1128	1130
<b>170</b>	834	846	858	866	876	884	890	892	898
<b>175</b>	776	778	782	788	796	800	802	808	810
<b>180</b>	770	770	770	770	770	770	770	770	770

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	11895.52	N.A.	12.00
0-30	25181.9	N.A.	25.30
0-40	41080.63	N.A.	41.30
0-60	73334.24	N.A.	73.70
0-80	93007.22	N.A.	93.50
0-90	94521.81	N.A.	95.00
10-90	91450.18	N.A.	91.90
20-40	29185.12	N.A.	29.30
20-50	45660.17	N.A.	45.90
40-70	44961.65	N.A.	45.20
60-80	19672.98	N.A.	19.80
70-80	6964.94	N.A.	7.00
80-90	1514.6	N.A.	1.50
90-110	494.78	N.A.	0.50
90-120	1059.42	N.A.	1.10
90-130	2076.28	N.A.	2.10
90-150	4051.08	N.A.	4.10
90-180	4989.36	N.A.	5.00
110-180	4494.57	N.A.	4.50
0-180	99511.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3071.64
10-20	8823.88
20-30	13286.38
30-40	15898.74
40-50	16475.05
50-60	15778.55
60-70	12708.05
70-80	6964.93
80-90	1514.6
90-100	201.21
100-110	293.58
110-120	564.64
120-130	1016.86
130-140	1100.67
140-150	874.14
150-160	589.28
160-170	273.65
170-180	75.34

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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	108	103	98	95	104	100	96	93	95	92	89	90	87	85	86	84	82	79
2	98	89	82	77	94	87	81	75	83	77	73	78	74	70	75	71	68	66
3	89	78	70	63	86	76	69	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	42	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	38	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	29	28
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

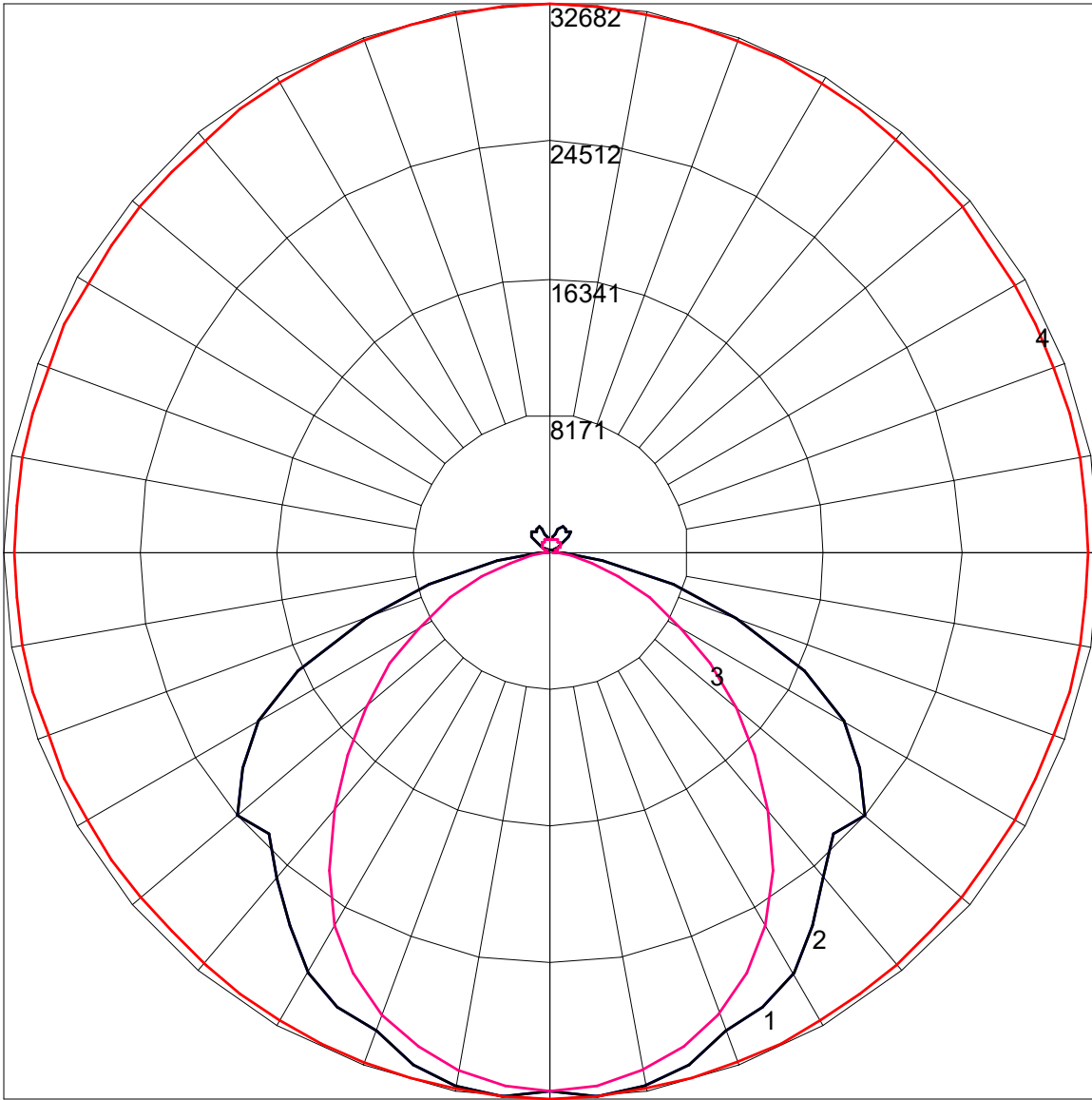
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**UGR TABLE - CORRECTED**

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	22.6	24.1	23.0	24.6	25.0	26.7	28.3	27.2	28.7	29.1
	3H	23.7	25.1	24.1	25.5	26.0	28.6	30.0	29.0	30.4	30.9
	4H	23.9	25.3	24.4	25.7	26.2	29.1	30.4	29.6	30.9	31.4
	6H	24.1	25.3	24.6	25.8	26.3	29.4	30.6	29.9	31.1	31.6
	8H	24.1	25.2	24.6	25.7	26.3	29.4	30.6	29.9	31.1	31.6
	12H	24.1	25.2	24.6	25.7	26.2	29.4	30.5	29.9	31.0	31.6
4H	2H	24.3	25.6	24.8	26.1	26.6	27.2	28.5	27.7	29.0	29.5
	3H	25.8	26.9	26.3	27.4	27.9	29.4	30.5	29.9	31.0	31.5
	4H	26.2	27.2	26.7	27.7	28.3	30.1	31.1	30.6	31.6	32.1
	6H	26.4	27.3	26.9	27.8	28.4	30.4	31.3	31.0	31.8	32.4
	8H	26.4	27.2	27.0	27.8	28.4	30.5	31.3	31.0	31.8	32.4
	12H	26.4	27.2	27.0	27.7	28.3	30.5	31.2	31.1	31.8	32.4
8H	4H	27.1	27.9	27.6	28.4	29.0	30.3	31.1	30.8	31.7	32.2
	6H	27.5	28.1	28.0	28.7	29.3	30.8	31.5	31.4	32.0	32.6
	8H	27.5	28.1	28.1	28.7	29.3	30.9	31.5	31.5	32.1	32.7
	12H	27.6	28.1	28.2	28.7	29.3	30.9	31.5	31.5	32.0	32.7
12H	4H	27.2	27.9	27.7	28.5	29.1	30.3	31.0	30.9	31.6	32.2
	6H	27.6	28.3	28.2	28.8	29.4	30.8	31.4	31.4	32.0	32.6
	8H	27.8	28.3	28.4	28.9	29.6	31.0	31.5	31.5	32.1	32.7

Maximum UGR = 32.7

POLAR GRAPH



Maximum Candela = 32682 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (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.)