



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-3-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111030
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-3-SA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2
 [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	18911
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	114.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.10 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22990	27480	30011
55	18948	27265	34256
65	14320	29233	34309
75	8655	25963	25977
85	3454	16327	13576

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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	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50
5	6023.25	6024.00	6036.75	6045.00	6039.00	6019.50	6003.75	5997.75	5997.75	6000.00
10	5941.50	5937.75	5937.00	5912.25	5910.75	5935.50	5986.50	6052.50	6100.50	6117.75
15	5789.25	5772.75	5734.50	5741.25	5805.00	5906.25	5954.25	5958.75	5938.50	5929.50
20	5570.25	5523.75	5501.25	5552.25	5636.25	5663.25	5660.25	5688.75	5674.50	5701.50
25	5276.25	5224.50	5222.25	5292.75	5314.50	5321.25	5341.50	5393.25	5444.25	5395.50
30	4881.00	4839.75	4851.75	4906.50	4929.00	4938.00	5046.75	5011.50	4989.00	5067.00
35	4413.00	4377.75	4409.25	4504.50	4485.75	4575.00	4548.75	4576.50	4686.00	4770.75
40	3869.25	3851.25	3954.75	3998.25	4032.75	4058.25	4101.75	4224.00	4336.50	4416.75
45	3292.50	3305.25	3422.25	3473.25	3519.75	3561.75	3691.50	3840.00	3930.00	4047.75
50	2750.25	2773.50	2858.25	2925.00	2995.50	3082.50	3278.25	3395.25	3530.25	3666.00
55	2229.75	2247.75	2309.25	2389.50	2473.50	2659.50	2811.00	2971.50	3141.00	3337.50
60	1740.00	1750.50	1798.50	1875.75	2004.75	2175.00	2384.25	2616.00	2889.75	3132.75
65	1268.25	1276.50	1318.50	1406.25	1539.75	1738.50	2028.00	2316.75	2562.75	2742.00
70	838.50	852.00	893.25	992.25	1143.00	1395.00	1650.75	1914.75	2127.75	2296.50
75	491.25	501.75	555.75	652.50	810.75	999.75	1220.25	1393.50	1559.25	1618.50
80	240.00	249.75	293.25	375.75	476.25	594.75	699.00	841.50	954.75	1035.75
85	80.25	87.75	110.25	140.25	180.75	237.75	311.25	383.25	439.50	473.25
90	27.00	30.00	37.50	50.25	67.50	90.00	120.00	152.25	187.50	220.50
95	31.50	33.75	38.25	48.75	62.25	80.25	101.25	126.75	151.50	174.75
100	39.75	45.75	49.50	56.25	66.00	79.50	93.00	108.75	126.00	138.75
105	48.75	61.50	70.50	81.00	90.00	86.25	93.75	102.00	108.75	115.50
110	60.00	75.00	93.75	103.50	118.50	134.25	121.50	108.75	108.75	110.25
115	72.00	86.25	111.00	128.25	140.25	154.50	183.00	160.50	141.75	125.25
120	85.50	98.25	124.50	148.50	156.75	174.75	171.00	207.75	210.75	179.25
125	97.50	108.00	132.00	152.25	180.75	179.25	197.25	186.75	209.25	224.25
130	108.00	115.50	132.75	156.00	180.00	202.50	195.00	211.50	208.50	189.75
135	115.50	121.50	135.75	150.00	171.00	196.50	215.25	197.25	218.25	216.00
140	120.00	123.75	133.50	138.75	164.25	183.00	204.00	221.25	208.50	205.50
145	122.25	125.25	131.25	142.50	144.75	175.50	190.50	204.00	214.50	228.00
150	125.25	127.50	131.25	139.50	144.00	150.75	176.25	189.75	200.25	209.25
155	129.00	129.75	131.25	134.25	141.00	143.25	148.50	160.50	179.25	192.00
160	129.00	129.00	130.50	131.25	132.75	137.25	141.00	143.25	149.25	157.50
165	126.75	126.75	127.50	128.25	128.25	129.00	130.50	133.50	136.50	138.75
170	127.50	127.50	127.50	127.50	127.50	127.50	127.50	128.25	129.00	131.25
175	132.00	132.00	132.00	132.00	132.00	131.25	131.25	131.25	131.25	131.25
180	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00

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>
0	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50	6064.50
5	6013.50	6035.25	6057.75	6077.25	6097.50	6115.50	6128.25	6132.75	6132.75
10	6123.00	6129.00	6133.50	6127.50	6121.50	6118.50	6121.50	6118.50	6113.25
15	5948.25	5943.75	5928.75	5926.50	5962.50	5993.25	6016.50	6023.25	6023.25
20	5783.25	5777.25	5748.00	5739.00	5736.00	5727.75	5727.00	5721.00	5720.25
25	5388.75	5417.25	5494.50	5547.00	5562.75	5585.25	5599.50	5610.00	5615.25
30	5157.00	5201.25	5266.50	5304.75	5349.00	5391.00	5415.00	5423.25	5425.50
35	4862.25	4950.00	4989.75	5014.50	5030.25	5015.25	5019.75	5028.75	5031.75
40	4518.75	4584.00	4637.25	4640.25	4661.25	4664.25	4670.25	4688.25	4698.75
45	4146.75	4218.00	4257.75	4293.00	4327.50	4359.75	4383.75	4392.00	4395.00
50	3765.00	3832.50	3937.50	4097.25	4265.25	4393.50	4483.50	4521.00	4526.25
55	3516.00	3721.50	3899.25	3972.00	4039.50	4096.50	4128.75	4147.50	4159.50
60	3266.25	3390.00	3529.50	3661.50	3746.25	3777.75	3795.75	3804.00	3800.25

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CANDELA TABULATION - (Cont.)

65	2914.50	3070.50	3132.75	3123.00	3117.00	3151.50	3177.00	3182.25	3180.75
70	2368.50	2405.25	2437.50	2436.75	2428.50	2408.25	2385.00	2358.75	2342.25
75	1639.50	1671.75	1702.50	1731.75	1720.50	1687.50	1639.50	1603.50	1589.25
80	1074.75	1066.50	1041.00	990.00	933.00	879.75	841.50	821.25	812.25
85	490.50	490.50	469.50	437.25	408.75	392.25	384.00	379.50	377.25
90	247.50	258.00	255.75	252.75	251.25	248.25	244.50	242.25	240.75
95	190.50	198.75	202.50	202.50	200.25	196.50	194.25	192.75	192.00
100	147.75	156.00	161.25	162.75	162.75	161.25	160.50	159.75	159.75
105	120.00	124.50	129.00	132.75	135.00	136.50	137.25	137.25	137.25
110	109.50	109.50	110.25	112.50	114.00	115.50	116.25	117.75	117.75
115	118.50	112.50	110.25	108.75	108.00	107.25	108.00	108.00	108.00
120	161.25	143.25	130.50	120.75	118.50	117.00	113.25	111.75	111.75
125	225.75	208.50	183.00	173.25	162.75	153.00	147.00	144.00	143.25
130	214.50	231.75	231.00	232.50	228.75	219.75	210.00	205.50	203.25
135	211.50	196.50	193.50	210.75	225.75	231.00	232.50	233.25	231.75
140	222.75	222.00	218.25	215.25	207.75	199.50	196.50	195.00	195.00
145	217.50	210.00	216.00	225.00	228.75	229.50	228.00	228.00	226.50
150	217.50	228.00	234.00	231.00	225.00	222.00	221.25	221.25	222.00
155	200.25	207.00	214.50	219.75	223.50	227.25	231.75	235.50	234.75
160	168.00	178.50	187.50	196.50	204.00	209.25	212.25	214.50	214.50
165	141.00	144.00	148.50	154.50	159.75	163.50	165.75	169.50	171.00
170	132.00	133.50	133.50	132.75	132.00	131.25	132.00	132.75	132.75
175	132.00	132.00	132.00	132.00	132.00	132.75	132.75	135.00	135.00
180	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2242.3	N.A.	11.90
0-30	4741.22	N.A.	25.10
0-40	7714.94	N.A.	40.80
0-60	13717.59	N.A.	72.50
0-80	17514.54	N.A.	92.60
0-90	17951.47	N.A.	94.90
10-90	17373.78	N.A.	91.90
20-40	5472.65	N.A.	28.90
20-50	8540.59	N.A.	45.20
40-70	8403.18	N.A.	44.40
60-80	3796.95	N.A.	20.10
70-80	1396.41	N.A.	7.40
80-90	436.94	N.A.	2.30
90-110	272.98	N.A.	1.40
90-120	396.31	N.A.	2.10
90-130	549.00	N.A.	2.90
90-150	820.75	N.A.	4.30
90-180	959.12	N.A.	5.10
110-180	686.14	N.A.	3.60
0-180	18910.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	577.70
10-20	1664.6
20-30	2498.92
30-40	2973.73
40-50	3067.94
50-60	2934.7
60-70	2400.54
70-80	1396.41
80-90	436.94
90-100	155.22
100-110	117.76
110-120	123.33
120-130	152.68
130-140	150.61
140-150	121.14
150-160	84.09
160-170	41.70
170-180	12.58

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	97	89	82	76	94	86	80	74	82	77	72	78	73	70	74	70	67	65
3	88	78	69	63	85	76	68	62	72	65	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	52	64	56	51	61	55	50	58	53	48	46
5	74	61	52	45	72	60	51	45	57	49	44	54	48	43	52	46	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	41	37	35
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	33	30
8	59	45	37	31	57	44	36	31	43	35	30	41	34	30	39	34	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

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UGR TABLE - CORRECTED

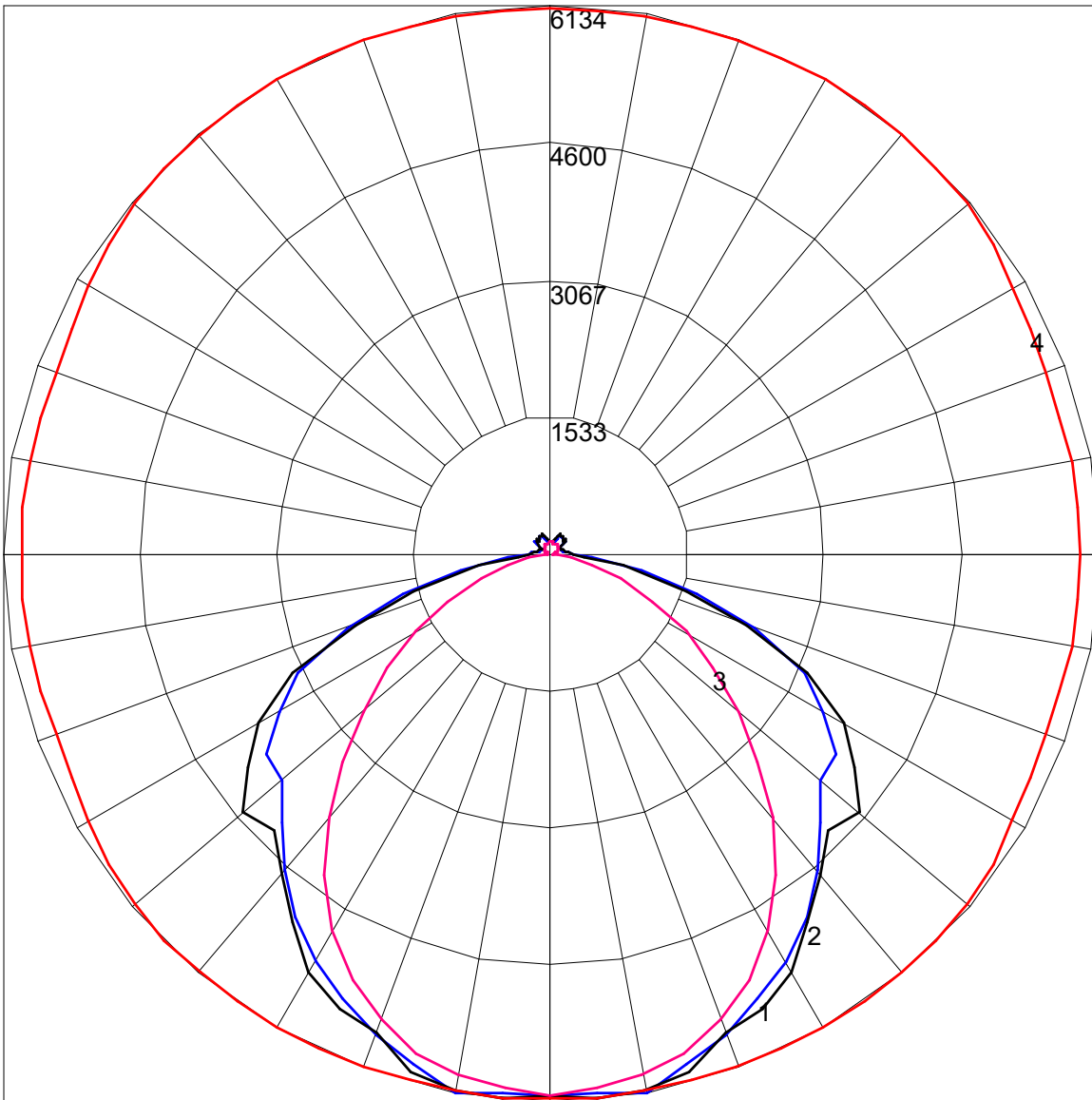
Reflectances

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	21.0	22.5	21.4	22.9	23.4	25.1	26.6	25.5	27.0	27.5
	3H	22.0	23.4	22.5	23.9	24.3	27.0	28.4	27.5	28.9	29.3
	4H	22.3	23.6	22.8	24.1	24.6	27.7	29.0	28.2	29.5	30.0
	6H	22.4	23.7	22.9	24.1	24.6	28.1	29.3	28.6	29.8	30.3
	8H	22.5	23.6	23.0	24.1	24.6	28.2	29.3	28.7	29.8	30.3
	12H	22.4	23.6	23.0	24.1	24.6	28.2	29.3	28.7	29.8	30.4
4H	2H	22.7	24.0	23.1	24.4	24.9	25.6	26.9	26.0	27.3	27.8
	3H	24.1	25.2	24.6	25.7	26.3	27.8	28.9	28.3	29.4	29.9
	4H	24.5	25.5	25.0	26.1	26.6	28.6	29.6	29.1	30.1	30.7
	6H	24.7	25.6	25.3	26.2	26.7	29.1	30.0	29.7	30.5	31.1
	8H	24.8	25.6	25.3	26.1	26.7	29.3	30.1	29.8	30.6	31.2
	12H	24.8	25.5	25.3	26.1	26.7	29.4	30.1	29.9	30.7	31.3
8H	4H	25.5	26.3	26.0	26.8	27.4	28.9	29.7	29.4	30.2	30.8
	6H	25.9	26.6	26.5	27.2	27.7	29.5	30.2	30.1	30.8	31.4
	8H	26.0	26.6	26.5	27.2	27.8	29.7	30.3	30.3	30.9	31.5
	12H	26.0	26.6	26.6	27.1	27.8	29.9	30.4	30.5	31.0	31.7
12H	4H	25.6	26.4	26.2	26.9	27.5	28.9	29.6	29.4	30.2	30.8
	6H	26.1	26.7	26.7	27.3	27.9	29.5	30.2	30.1	30.7	31.4
	8H	26.3	26.8	26.9	27.4	28.1	29.8	30.4	30.4	30.9	31.6

Maximum UGR = 31.7

POLAR GRAPH



- Maximum Candela = 6133.5 Located At Horizontal Angle = 60, Vertical Angle = 10
- # 1 - Vertical Plane Through Horizontal Angles (60 - 240) (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 (10) (Through Max. Cd.)