



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-3-XX-850-4-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-850-4-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	37821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	229
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)	3.83 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	23404	27841	30089
55	19411	27738	34346
65	14822	29935	34399
75	9154	26934	26045
85	3987	17685	13611

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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	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0
5	12046.5	12048.0	12073.5	12090.0	12078.0	12039.0	12007.5	11995.5	11995.5	12000.0
10	11883.0	11875.5	11874.0	11824.5	11821.5	11871.0	11973.0	12105.0	12201.0	12235.5
15	11578.5	11545.5	11469.0	11482.5	11610.0	11812.5	11908.5	11917.5	11877.0	11859.0
20	11140.5	11047.5	11002.5	11104.5	11272.5	11326.5	11320.5	11377.5	11349.0	11403.0
25	10552.5	10449.0	10444.5	10585.5	10629.0	10642.5	10683.0	10786.5	10888.5	10791.0
30	9762.0	9679.5	9703.5	9813.0	9858.0	9876.0	10093.5	10023.0	9978.0	10134.0
35	8826.0	8755.5	8818.5	9009.0	8971.5	9150.0	9097.5	9153.0	9372.0	9541.5
40	7738.5	7702.5	7909.5	7996.5	8065.5	8116.5	8203.5	8448.0	8673.0	8833.5
45	6585.0	6610.5	6844.5	6946.5	7039.5	7123.5	7383.0	7680.0	7860.0	8095.5
50	5500.5	5547.0	5716.5	5850.0	5991.0	6165.0	6556.5	6790.5	7060.5	7332.0
55	4459.5	4495.5	4618.5	4779.0	4947.0	5319.0	5622.0	5943.0	6282.0	6675.0
60	3480.0	3501.0	3597.0	3751.5	4009.5	4350.0	4768.5	5232.0	5779.5	6265.5
65	2536.5	2553.0	2637.0	2812.5	3079.5	3477.0	4056.0	4633.5	5125.5	5484.0
70	1677.0	1704.0	1786.5	1984.5	2286.0	2790.0	3301.5	3829.5	4255.5	4593.0
75	982.5	1003.5	1111.5	1305.0	1621.5	1999.5	2440.5	2787.0	3118.5	3237.0
80	480.0	499.5	586.5	751.5	952.5	1189.5	1398.0	1683.0	1909.5	2071.5
85	160.5	175.5	220.5	280.5	361.5	475.5	622.5	766.5	879.0	946.5
90	54.0	60.0	75.0	100.5	135.0	180.0	240.0	304.5	375.0	441.0
95	63.0	67.5	76.5	97.5	124.5	160.5	202.5	253.5	303.0	349.5
100	79.5	91.5	99.0	112.5	132.0	159.0	186.0	217.5	252.0	277.5
105	97.5	123.0	141.0	162.0	180.0	172.5	187.5	204.0	217.5	231.0
110	120.0	150.0	187.5	207.0	237.0	268.5	243.0	217.5	217.5	220.5
115	144.0	172.5	222.0	256.5	280.5	309.0	366.0	321.0	283.5	250.5
120	171.0	196.5	249.0	297.0	313.5	349.5	342.0	415.5	421.5	358.5
125	195.0	216.0	264.0	304.5	361.5	358.5	394.5	373.5	418.5	448.5
130	216.0	231.0	265.5	312.0	360.0	405.0	390.0	423.0	417.0	379.5
135	231.0	243.0	271.5	300.0	342.0	393.0	430.5	394.5	436.5	432.0
140	240.0	247.5	267.0	277.5	328.5	366.0	408.0	442.5	417.0	411.0
145	244.5	250.5	262.5	285.0	289.5	351.0	381.0	408.0	429.0	456.0
150	250.5	255.0	262.5	279.0	288.0	301.5	352.5	379.5	400.5	418.5
155	258.0	259.5	262.5	268.5	282.0	286.5	297.0	321.0	358.5	384.0
160	258.0	258.0	261.0	262.5	265.5	274.5	282.0	286.5	298.5	315.0
165	253.5	253.5	255.0	256.5	256.5	258.0	261.0	267.0	273.0	277.5
170	255.0	255.0	255.0	255.0	255.0	255.0	255.0	256.5	258.0	262.5
175	264.0	264.0	264.0	264.0	264.0	262.5	262.5	262.5	262.5	262.5
180	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0

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	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0	12129.0
5	12027.0	12070.5	12115.5	12154.5	12195.0	12231.0	12256.5	12265.5	12265.5
10	12246.0	12258.0	12267.0	12255.0	12243.0	12237.0	12243.0	12237.0	12226.5
15	11896.5	11887.5	11857.5	11853.0	11925.0	11986.5	12033.0	12046.5	12046.5
20	11566.5	11554.5	11496.0	11478.0	11472.0	11455.5	11454.0	11442.0	11440.5
25	10777.5	10834.5	10989.0	11094.0	11125.5	11170.5	11199.0	11220.0	11230.5
30	10314.0	10402.5	10533.0	10609.5	10698.0	10782.0	10830.0	10846.5	10851.0
35	9724.5	9900.0	9979.5	10029.0	10060.5	10030.5	10039.5	10057.5	10063.5
40	9037.5	9168.0	9274.5	9280.5	9322.5	9328.5	9340.5	9376.5	9397.5
45	8293.5	8436.0	8515.5	8586.0	8655.0	8719.5	8767.5	8784.0	8790.0
50	7530.0	7665.0	7875.0	8194.5	8530.5	8787.0	8967.0	9042.0	9052.5
55	7032.0	7443.0	7798.5	7944.0	8079.0	8193.0	8257.5	8295.0	8319.0
60	6532.5	6780.0	7059.0	7323.0	7492.5	7555.5	7591.5	7608.0	7600.5

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65	5829.0	6141.0	6265.5	6246.0	6234.0	6303.0	6354.0	6364.5	6361.5
70	4737.0	4810.5	4875.0	4873.5	4857.0	4816.5	4770.0	4717.5	4684.5
75	3279.0	3343.5	3405.0	3463.5	3441.0	3375.0	3279.0	3207.0	3178.5
80	2149.5	2133.0	2082.0	1980.0	1866.0	1759.5	1683.0	1642.5	1624.5
85	981.0	981.0	939.0	874.5	817.5	784.5	768.0	759.0	754.5
90	495.0	516.0	511.5	505.5	502.5	496.5	489.0	484.5	481.5
95	381.0	397.5	405.0	405.0	400.5	393.0	388.5	385.5	384.0
100	295.5	312.0	322.5	325.5	325.5	322.5	321.0	319.5	319.5
105	240.0	249.0	258.0	265.5	270.0	273.0	274.5	274.5	274.5
110	219.0	219.0	220.5	225.0	228.0	231.0	232.5	235.5	235.5
115	237.0	225.0	220.5	217.5	216.0	214.5	216.0	216.0	216.0
120	322.5	286.5	261.0	241.5	237.0	234.0	226.5	223.5	223.5
125	451.5	417.0	366.0	346.5	325.5	306.0	294.0	288.0	286.5
130	429.0	463.5	462.0	465.0	457.5	439.5	420.0	411.0	406.5
135	423.0	393.0	387.0	421.5	451.5	462.0	465.0	466.5	463.5
140	445.5	444.0	436.5	430.5	415.5	399.0	393.0	390.0	390.0
145	435.0	420.0	432.0	450.0	457.5	459.0	456.0	456.0	453.0
150	435.0	456.0	468.0	462.0	450.0	444.0	442.5	442.5	444.0
155	400.5	414.0	429.0	439.5	447.0	454.5	463.5	471.0	469.5
160	336.0	357.0	375.0	393.0	408.0	418.5	424.5	429.0	429.0
165	282.0	288.0	297.0	309.0	319.5	327.0	331.5	339.0	342.0
170	264.0	267.0	267.0	265.5	264.0	262.5	264.0	265.5	265.5
175	264.0	264.0	264.0	264.0	264.0	265.5	265.5	270.0	270.0
180	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4484.59	N.A.	11.90
0-30	9482.43	N.A.	25.10
0-40	15429.89	N.A.	40.80
0-60	27435.18	N.A.	72.50
0-80	35029.07	N.A.	92.60
0-90	35902.95	N.A.	94.90
10-90	34747.55	N.A.	91.90
20-40	10945.3	N.A.	28.90
20-50	17081.18	N.A.	45.20
40-70	16806.37	N.A.	44.40
60-80	7593.89	N.A.	20.10
70-80	2792.82	N.A.	7.40
80-90	873.87	N.A.	2.30
90-110	545.96	N.A.	1.40
90-120	792.63	N.A.	2.10
90-130	1098.00	N.A.	2.90
90-150	1641.5	N.A.	4.30
90-180	1918.23	N.A.	5.10
110-180	1372.28	N.A.	3.60
0-180	37821.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1155.4
10-20	3329.19
20-30	4997.84
30-40	5947.46
40-50	6135.88
50-60	5869.41
60-70	4801.07
70-80	2792.82
80-90	873.87
90-100	310.44
100-110	235.52
110-120	246.67
120-130	305.37
130-140	301.22
140-150	242.28
150-160	168.18
160-170	83.40
170-180	25.15

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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	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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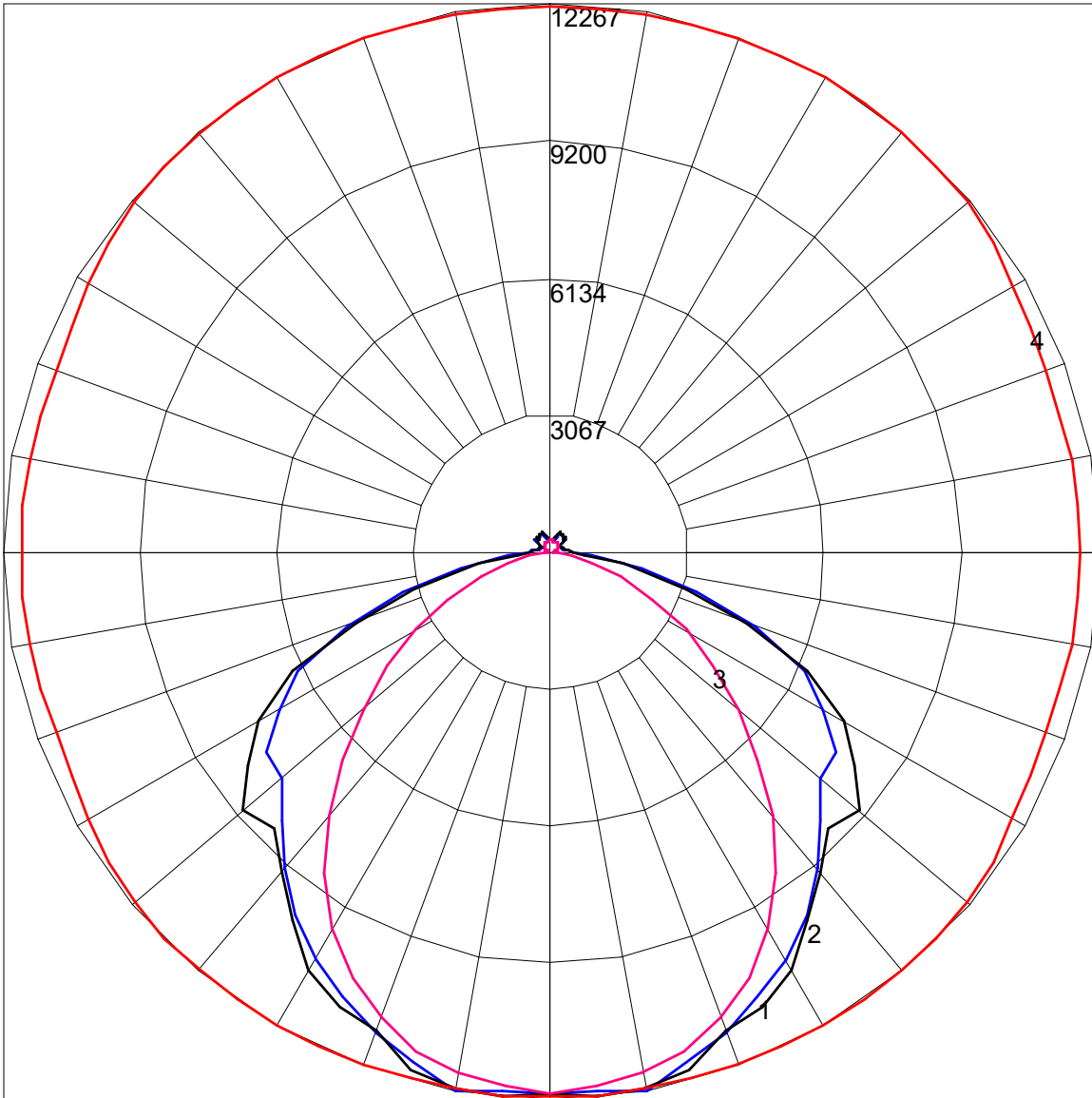
UGR TABLE - CORRECTED

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	23.0	23.4	25.1	26.7	25.6	27.1	27.5
	3H	22.1	23.5	22.5	23.9	24.4	27.1	28.5	27.6	29.0	29.4
	4H	22.3	23.7	22.8	24.1	24.6	27.8	29.1	28.3	29.6	30.1
	6H	22.5	23.7	23.0	24.2	24.7	28.2	29.4	28.7	29.9	30.4
	8H	22.5	23.7	23.0	24.1	24.7	28.3	29.5	28.8	30.0	30.5
	12H	22.5	23.6	23.0	24.1	24.6	28.4	29.5	28.9	30.0	30.5
4H	2H	22.7	24.0	23.2	24.5	25.0	25.6	27.0	26.1	27.4	27.9
	3H	24.2	25.3	24.7	25.8	26.3	27.9	29.0	28.4	29.5	30.0
	4H	24.6	25.6	25.1	26.1	26.7	28.7	29.8	29.3	30.3	30.8
	6H	24.8	25.7	25.3	26.2	26.8	29.3	30.1	29.8	30.7	31.2
	8H	24.8	25.6	25.3	26.2	26.7	29.4	30.2	29.9	30.8	31.3
	12H	24.8	25.6	25.4	26.1	26.7	29.5	30.3	30.1	30.8	31.4
8H	4H	25.6	26.4	26.1	26.9	27.5	29.0	29.8	29.5	30.3	30.9
	6H	26.0	26.7	26.5	27.2	27.8	29.6	30.3	30.2	30.9	31.5
	8H	26.0	26.7	26.6	27.3	27.9	29.9	30.5	30.4	31.1	31.7
	12H	26.1	26.6	26.7	27.2	27.9	30.0	30.6	30.6	31.2	31.8
12H	4H	25.7	26.4	26.2	27.0	27.6	29.0	29.7	29.5	30.3	30.9
	6H	26.2	26.8	26.8	27.4	28.0	29.7	30.3	30.3	30.9	31.5
	8H	26.4	26.9	26.9	27.5	28.2	30.0	30.5	30.5	31.1	31.8

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 12267 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.)