



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SEL45 UV 940 @850MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 4 SEL45 UV 940

[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,

[MORE] no enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set to 850mA

[OTHER] 120.0Vac, 60.00Hz

[OTHER] This test was performed using the absolute method of photometry.

[MORE] Lamp lumens value was set to -1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6831
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	42.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16238	15693	15593
55	15962	15224	14805
65	15084	13852	13348
75	12850	10868	10174
85	7217	4880	4386

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	835.48	N.A.	12.20
0-30	1789.18	N.A.	26.20
0-40	2962.18	N.A.	43.40
0-60	5359.4	N.A.	78.50
0-80	6720.94	N.A.	98.40
0-90	6830.7	N.A.	100.00
10-90	6615.61	N.A.	96.80
20-40	2126.7	N.A.	31.10
20-50	3373.45	N.A.	49.40
40-70	3277.5	N.A.	48.00
60-80	1361.54	N.A.	19.90
70-80	481.27	N.A.	7.00
80-90	109.76	N.A.	1.60
90-110	0.60	N.A.	0.00
90-120	0.60	N.A.	0.00
90-130	0.60	N.A.	0.00
90-150	0.60	N.A.	0.00
90-180	0.60	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6831.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.09
10-20	620.39
20-30	953.70
30-40	1173.00
40-50	1246.75
50-60	1150.47
60-70	880.28
70-80	481.27
80-90	109.76
90-100	0.60
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

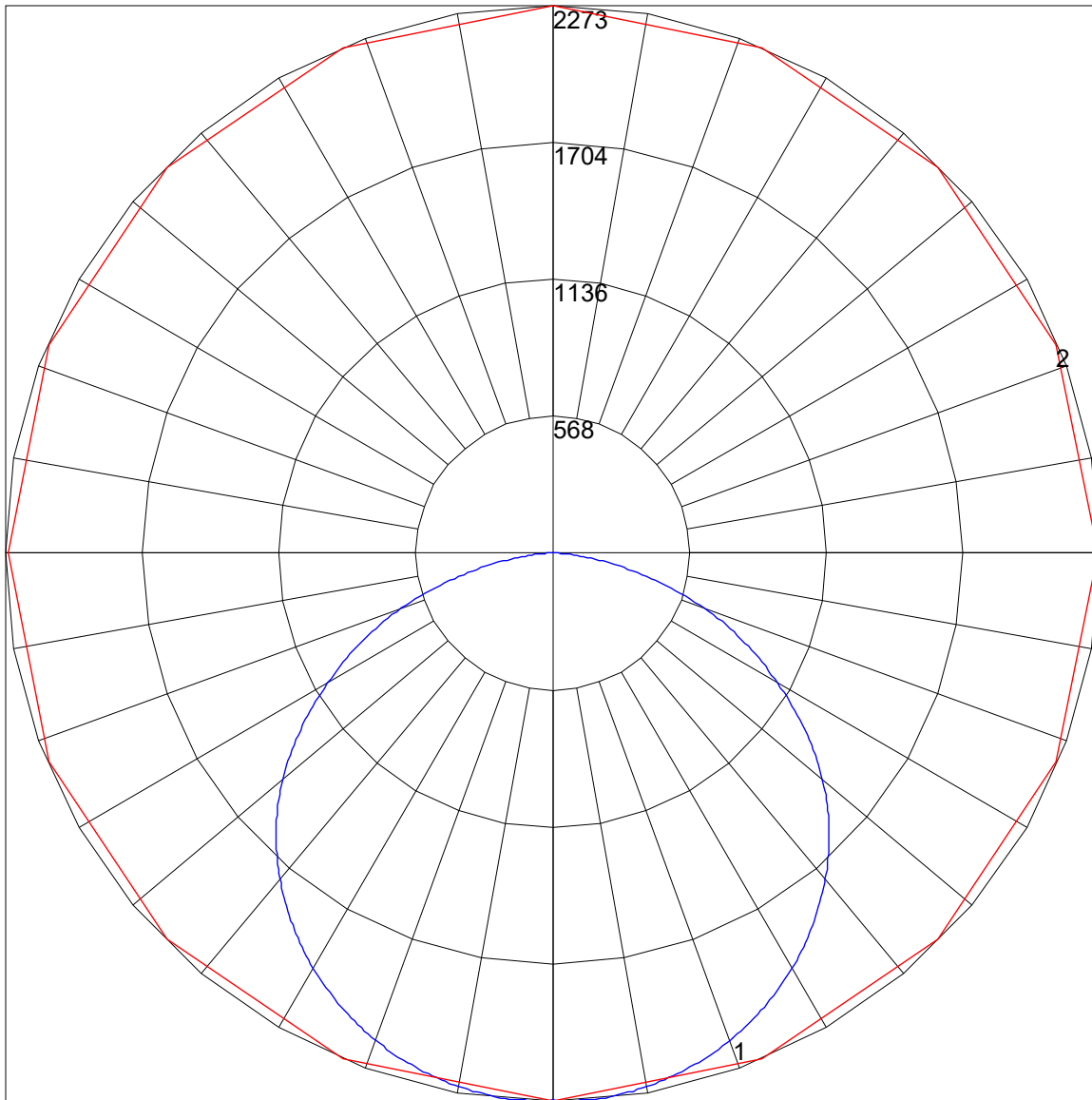
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UGR TABLE - CORRECTED

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	21.7	23.4	22.1	23.7	24.0	21.8	23.5	22.2	23.8	24.1
	3H	23.5	25.0	23.9	25.3	25.7	23.6	25.1	24.0	25.5	25.8
	4H	24.1	25.5	24.5	25.9	26.2	24.2	25.6	24.6	26.0	26.4
	6H	24.5	25.8	24.9	26.2	26.6	24.6	25.9	25.0	26.3	26.7
	8H	24.6	25.8	25.0	26.2	26.6	24.7	26.0	25.1	26.3	26.7
	12H	24.6	25.8	25.0	26.2	26.6	24.7	26.0	25.2	26.3	26.8
4H	2H	22.4	23.8	22.8	24.1	24.5	22.5	23.9	22.9	24.2	24.6
	3H	24.3	25.5	24.7	25.9	26.3	24.4	25.6	24.8	26.0	26.4
	4H	25.1	26.1	25.5	26.5	27.0	25.1	26.2	25.5	26.6	27.0
	6H	25.6	26.5	26.0	26.9	27.4	25.6	26.5	26.1	27.0	27.4
	8H	25.7	26.5	26.1	27.0	27.5	25.7	26.6	26.2	27.1	27.5
	12H	25.7	26.5	26.2	27.0	27.5	25.8	26.6	26.3	27.1	27.6
8H	4H	25.3	26.2	25.8	26.6	27.1	25.4	26.3	25.8	26.7	27.2
	6H	25.9	26.6	26.4	27.1	27.6	25.9	26.7	26.4	27.2	27.6
	8H	26.0	26.7	26.6	27.2	27.7	26.1	26.8	26.6	27.3	27.8
	12H	26.2	26.7	26.7	27.2	27.8	26.2	26.8	26.7	27.3	27.9
12H	4H	25.3	26.1	25.8	26.6	27.1	25.4	26.2	25.9	26.7	27.1
	6H	25.9	26.6	26.4	27.0	27.6	26.0	26.6	26.5	27.1	27.6
	8H	26.1	26.7	26.6	27.2	27.7	26.2	26.8	26.7	27.2	27.8

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 2272.639 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)