



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 2 SEL45 UV FR 940 @850MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-013(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 2 SEL45 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] One LS3872A 84 LED board, 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	5625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	37.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.99 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23334	22730	22942
55	20025	20506	21074
65	15796	17800	18641
75	11216	15052	15859
85	5888	13704	14035

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Zone	Lumens	%Lamp	%Fixt
0-20	701.11	N.A.	12.50
0-30	1490.53	N.A.	26.50
0-40	2439.41	N.A.	43.40
0-60	4269.94	N.A.	75.90
0-80	5317.58	N.A.	94.50
0-90	5521.4	N.A.	98.20
10-90	5340.28	N.A.	94.90
20-40	1738.3	N.A.	30.90
20-50	2710.53	N.A.	48.20
40-70	2475.23	N.A.	44.00
60-80	1047.64	N.A.	18.60
70-80	402.94	N.A.	7.20
80-90	203.83	N.A.	3.60
90-110	102.93	N.A.	1.80
90-120	103.23	N.A.	1.80
90-130	103.23	N.A.	1.80
90-150	103.23	N.A.	1.80
90-180	103.23	N.A.	1.80
110-180	0.30	N.A.	0.00
0-180	5624.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	181.13
10-20	519.99
20-30	789.42
30-40	948.88
40-50	972.23
50-60	858.30
60-70	644.70
70-80	402.94
80-90	203.83
90-100	83.01
100-110	19.92
110-120	0.30
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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	60	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	36
7	64	51	42	36	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	31	29
9	56	42	34	29	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	26	36	30	25	35	29	25	23

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UGR TABLE - CORRECTED

Reflectances

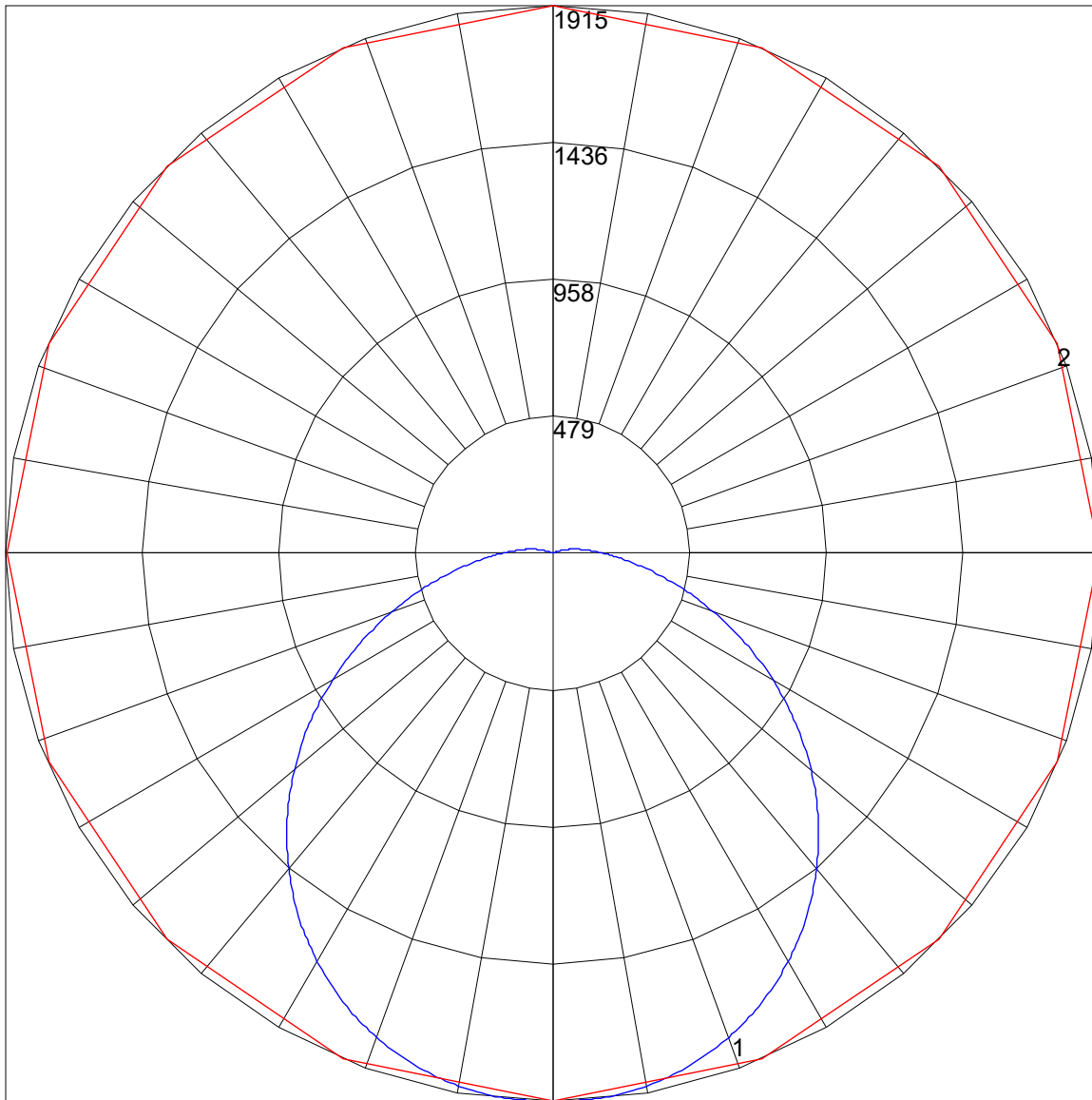
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	21.3	22.9	21.7	23.3	23.7	23.0	24.6	23.4	25.0	25.4
	3H	22.6	24.1	23.0	24.4	24.8	25.0	26.5	25.4	26.8	27.2
	4H	23.0	24.4	23.4	24.8	25.2	25.8	27.2	26.3	27.6	28.0
	6H	23.2	24.5	23.7	24.9	25.3	26.6	27.9	27.1	28.3	28.7
	8H	23.3	24.5	23.7	24.9	25.4	27.0	28.2	27.4	28.6	29.1
	12H	23.3	24.5	23.8	24.9	25.4	27.3	28.5	27.8	28.9	29.4
4H	2H	22.2	23.5	22.6	23.9	24.4	23.5	24.9	23.9	25.3	25.7
	3H	23.7	24.9	24.1	25.3	25.7	25.7	26.9	26.1	27.3	27.8
	4H	24.2	25.3	24.7	25.7	26.2	26.7	27.8	27.2	28.2	28.7
	6H	24.5	25.5	25.0	26.0	26.5	27.6	28.6	28.1	29.1	29.6
	8H	24.6	25.5	25.1	26.0	26.5	28.1	29.0	28.6	29.4	29.9
	12H	24.7	25.5	25.2	26.0	26.5	28.5	29.3	29.1	29.9	30.4
8H	4H	24.8	25.6	25.2	26.1	26.6	26.9	27.8	27.4	28.3	28.8
	6H	25.3	26.0	25.8	26.5	27.0	28.0	28.8	28.6	29.3	29.8
	8H	25.4	26.1	26.0	26.6	27.2	28.6	29.3	29.2	29.8	30.3
	12H	25.5	26.1	26.1	26.7	27.3	29.2	29.8	29.8	30.3	30.9
12H	4H	24.9	25.7	25.4	26.2	26.7	26.9	27.7	27.4	28.2	28.7
	6H	25.5	26.2	26.0	26.6	27.2	28.1	28.8	28.7	29.3	29.8
	8H	25.7	26.3	26.3	26.8	27.4	28.7	29.3	29.3	29.8	30.4

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 1915.167 Located At Horizontal Angle = 90, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)