



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SEL45 UV FR 940 @700MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 4 SEL45 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set to 700mA

[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	5419
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	34.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 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	11415	10989	10979
55	9949	9972	10084
65	7997	8720	8901
75	5804	7453	7536
85	3329	6935	6610

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Zone	Lumens	%Lamp	%Fixt
0-20	673.71	N.A.	12.40
0-30	1432.72	N.A.	26.40
0-40	2345.93	N.A.	43.30
0-60	4112.26	N.A.	75.90
0-80	5126.18	N.A.	94.60
0-90	5322.12	N.A.	98.20
10-90	5148.15	N.A.	95.00
20-40	1672.22	N.A.	30.90
20-50	2609.24	N.A.	48.20
40-70	2390.68	N.A.	44.10
60-80	1013.91	N.A.	18.70
70-80	389.57	N.A.	7.20
80-90	195.95	N.A.	3.60
90-110	96.59	N.A.	1.80
90-120	96.79	N.A.	1.80
90-130	96.79	N.A.	1.80
90-150	96.79	N.A.	1.80
90-180	96.79	N.A.	1.80
110-180	0.20	N.A.	0.00
0-180	5418.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.97
10-20	499.75
20-30	759.01
30-40	913.21
40-50	937.02
50-60	829.31
60-70	624.34
70-80	389.57
80-90	195.95
90-100	78.55
100-110	18.04
110-120	0.20
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	39	51	44	39	49	43	38	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	36	31	42	36	31	41	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	35	29	25	23

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UGR TABLE - CORRECTED

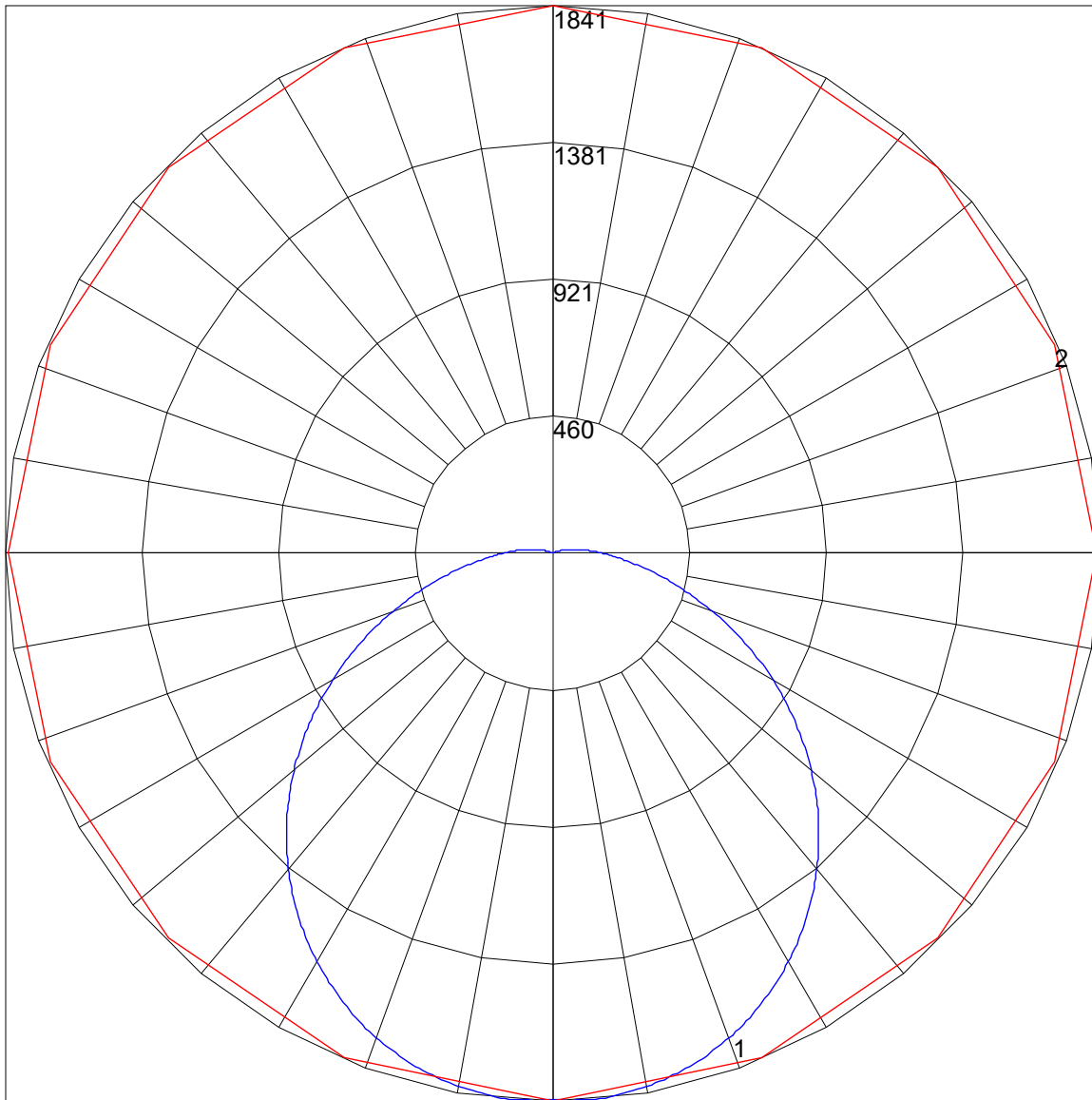
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.9	20.5	19.3	20.9	21.2	20.6	22.2	21.0	22.5	22.9
	3H	20.2	21.7	20.6	22.0	22.4	22.6	24.0	23.0	24.4	24.8
	4H	20.6	22.0	21.0	22.4	22.8	23.4	24.8	23.8	25.2	25.6
	6H	20.8	22.1	21.3	22.5	22.9	24.2	25.5	24.6	25.9	26.3
	8H	20.9	22.1	21.3	22.5	23.0	24.6	25.8	25.0	26.2	26.7
	12H	20.9	22.1	21.4	22.5	23.0	25.0	26.1	25.4	26.5	27.0
4H	2H	19.7	21.1	20.2	21.5	21.9	21.0	22.4	21.5	22.8	23.2
	3H	21.3	22.4	21.7	22.9	23.3	23.3	24.4	23.7	24.9	25.3
	4H	21.8	22.9	22.3	23.3	23.8	24.3	25.3	24.7	25.8	26.3
	6H	22.1	23.1	22.6	23.6	24.1	25.2	26.2	25.7	26.6	27.1
	8H	22.2	23.1	22.7	23.6	24.1	25.7	26.6	26.2	27.0	27.5
	12H	22.3	23.1	22.8	23.6	24.1	26.2	27.0	26.7	27.5	28.0
8H	4H	22.4	23.2	22.8	23.7	24.2	24.5	25.4	25.0	25.8	26.4
	6H	22.9	23.6	23.4	24.1	24.7	25.6	26.4	26.1	26.9	27.4
	8H	23.1	23.7	23.6	24.2	24.8	26.2	26.9	26.7	27.4	27.9
	12H	23.2	23.7	23.7	24.3	24.9	26.8	27.4	27.4	28.0	28.6
12H	4H	22.5	23.3	23.0	23.8	24.3	24.5	25.3	25.0	25.8	26.3
	6H	23.1	23.8	23.7	24.3	24.8	25.7	26.3	26.2	26.8	27.4
	8H	23.3	23.9	23.9	24.5	25.1	26.3	26.9	26.8	27.4	28.0

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 1841.447 Located At Horizontal Angle = 90, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)