



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SEL45 UV FR 940 @850MA.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 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	6499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	42.9
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	13690	13180	13168
55	11933	11960	12094
65	9591	10459	10676
75	6961	8938	9038
85	3993	8317	7928

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Zone	Lumens	%Lamp	%Fixt
0-20	808.02	N.A.	12.40
0-30	1718.34	N.A.	26.40
0-40	2813.6	N.A.	43.30
0-60	4932.06	N.A.	75.90
0-80	6148.1	N.A.	94.60
0-90	6383.11	N.A.	98.20
10-90	6174.46	N.A.	95.00
20-40	2005.58	N.A.	30.90
20-50	3129.41	N.A.	48.20
40-70	2867.27	N.A.	44.10
60-80	1216.04	N.A.	18.70
70-80	467.23	N.A.	7.20
80-90	235.01	N.A.	3.60
90-110	115.85	N.A.	1.80
90-120	116.08	N.A.	1.80
90-130	116.08	N.A.	1.80
90-150	116.08	N.A.	1.80
90-180	116.08	N.A.	1.80
110-180	0.23	N.A.	0.00
0-180	6499.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	208.65
10-20	599.37
20-30	910.32
30-40	1095.26
40-50	1123.82
50-60	994.63
60-70	748.81
70-80	467.23
80-90	235.01
90-100	94.20
100-110	21.64
110-120	0.23
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

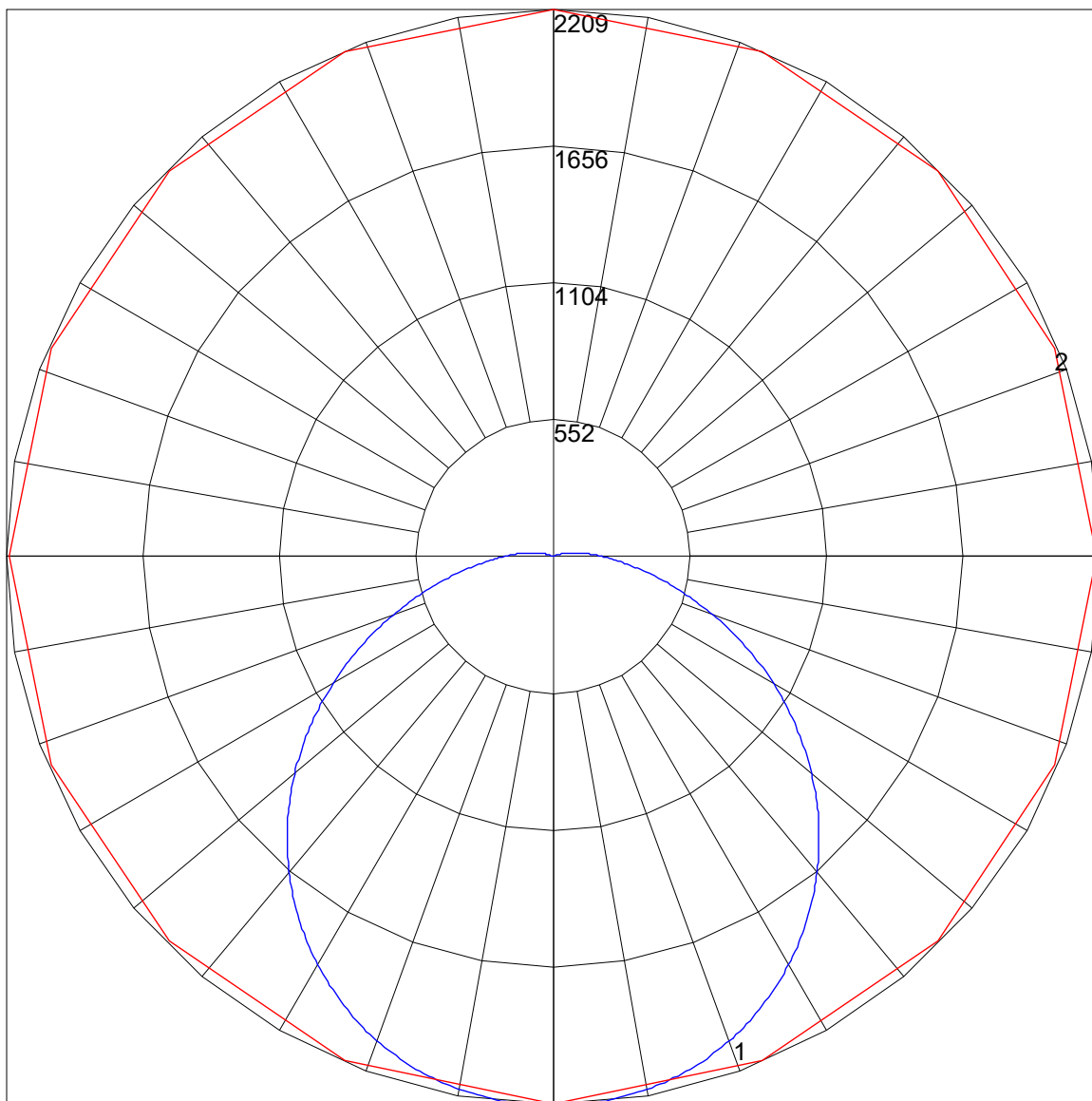
X=2H	Y=2H	19.5	21.1	19.9	21.5	21.8	21.2	22.8	21.6	23.1	23.5
	3H	20.8	22.3	21.2	22.6	23.0	23.2	24.6	23.6	25.0	25.4
	4H	21.2	22.6	21.6	23.0	23.4	24.0	25.4	24.4	25.8	26.2
	6H	21.4	22.7	21.9	23.1	23.5	24.8	26.1	25.2	26.5	26.9
	8H	21.5	22.7	21.9	23.1	23.6	25.2	26.4	25.6	26.8	27.3
	12H	21.5	22.7	22.0	23.1	23.6	25.6	26.7	26.0	27.1	27.6

UGR Viewed Endwise

4H	2H	20.3	21.7	20.8	22.1	22.5	21.6	23.0	22.1	23.4	23.8
	3H	21.9	23.0	22.3	23.5	23.9	23.9	25.0	24.3	25.5	25.9
	4H	22.4	23.5	22.9	23.9	24.4	24.9	25.9	25.3	26.4	26.9
	6H	22.7	23.7	23.2	24.2	24.7	25.8	26.8	26.3	27.2	27.7
	8H	22.8	23.7	23.3	24.2	24.7	26.3	27.2	26.8	27.6	28.1
	12H	22.9	23.7	23.4	24.2	24.7	26.8	27.6	27.3	28.1	28.6
8H	4H	23.0	23.8	23.4	24.3	24.8	25.1	26.0	25.6	26.4	27.0
	6H	23.5	24.2	24.0	24.7	25.3	26.2	27.0	26.7	27.5	28.0
	8H	23.7	24.3	24.2	24.8	25.4	26.8	27.5	27.3	28.0	28.5
	12H	23.8	24.3	24.3	24.9	25.5	27.4	28.0	28.0	28.6	29.2
12H	4H	23.1	23.9	23.6	24.4	24.9	25.1	25.9	25.6	26.4	26.9
	6H	23.7	24.4	24.3	24.9	25.4	26.3	26.9	26.8	27.4	28.0
	8H	23.9	24.5	24.5	25.1	25.7	26.9	27.5	27.4	28.0	28.6

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 2208.547 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.)