



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL45 UV FR 940 @750MA.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 8 SEL45 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set to 750mA

[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	5846
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	36.3
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)	8.00 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	6205	5957	5922
55	5426	5415	5439
65	4385	4748	4801
75	3220	4077	4065
85	1944	3839	3566

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Zone	Lumens	%Lamp	%Fixt
0-20	726.81	N.A.	12.40
0-30	1545.63	N.A.	26.40
0-40	2530.81	N.A.	43.30
0-60	4436.35	N.A.	75.90
0-80	5530.17	N.A.	94.60
0-90	5741.55	N.A.	98.20
10-90	5553.88	N.A.	95.00
20-40	1804.00	N.A.	30.90
20-50	2814.87	N.A.	48.20
40-70	2579.08	N.A.	44.10
60-80	1093.82	N.A.	18.70
70-80	420.27	N.A.	7.20
80-90	211.39	N.A.	3.60
90-110	104.20	N.A.	1.80
90-120	104.41	N.A.	1.80
90-130	104.41	N.A.	1.80
90-150	104.41	N.A.	1.80
90-180	104.41	N.A.	1.80
110-180	0.21	N.A.	0.00
0-180	5845.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.68
10-20	539.13
20-30	818.82
30-40	985.18
40-50	1010.87
50-60	894.66
60-70	673.55
70-80	420.27
80-90	211.39
90-100	84.74
100-110	19.47
110-120	0.21
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

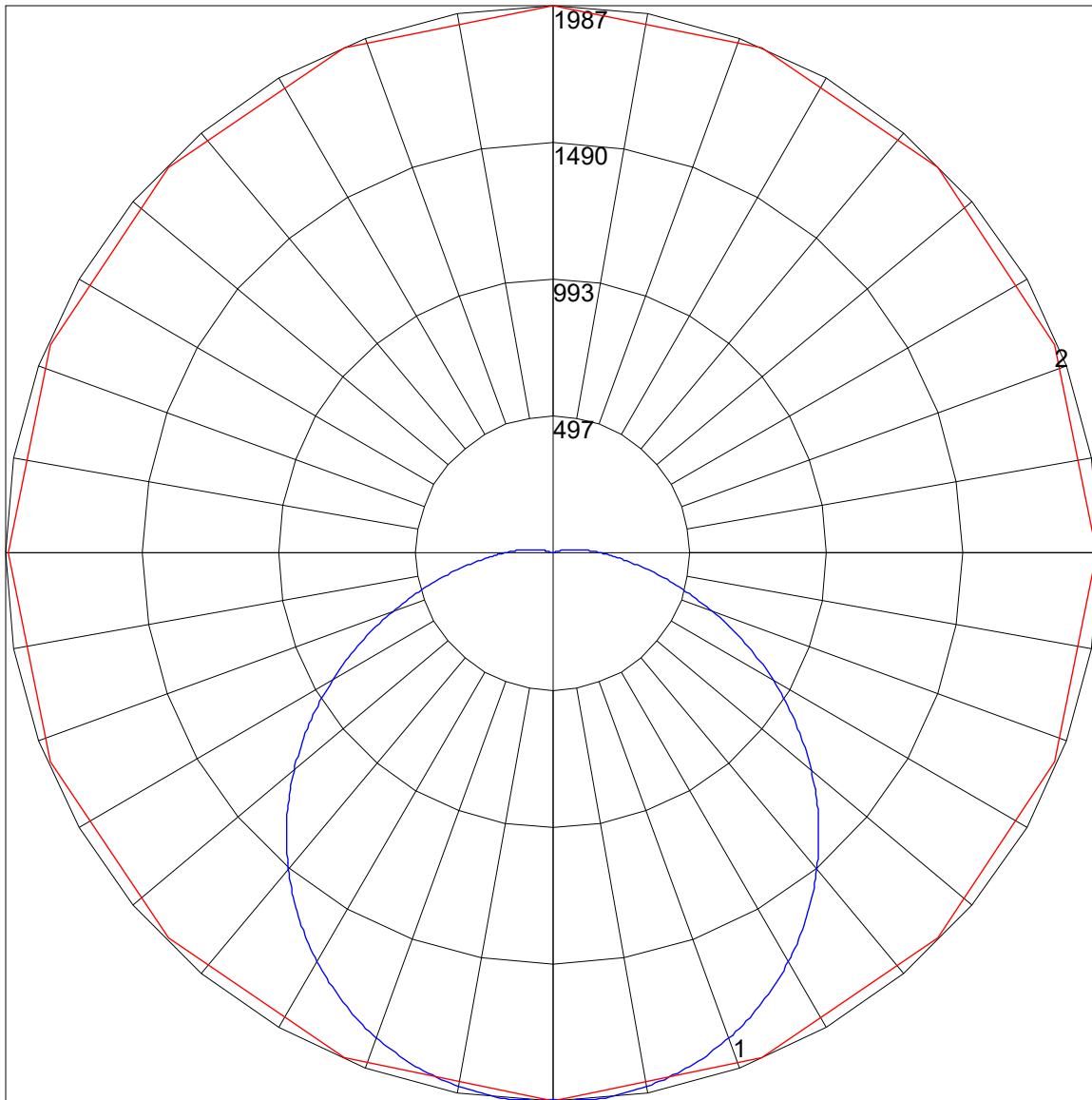
Reflectances

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	16.7	18.3	17.1	18.7	19.0	18.4	20.0	18.8	20.4	20.7
	3H	18.0	19.5	18.4	19.8	20.2	20.4	21.9	20.8	22.2	22.6
	4H	18.4	19.8	18.8	20.2	20.6	21.2	22.6	21.7	23.0	23.4
	6H	18.6	19.9	19.1	20.3	20.7	22.0	23.3	22.5	23.7	24.2
	8H	18.7	19.9	19.1	20.3	20.8	22.4	23.7	22.9	24.1	24.5
	12H	18.7	19.9	19.2	20.3	20.8	22.8	24.0	23.3	24.4	24.9
4H	2H	17.5	18.9	18.0	19.3	19.7	18.9	20.3	19.3	20.6	21.1
	3H	19.1	20.3	19.5	20.7	21.1	21.1	22.3	21.5	22.7	23.1
	4H	19.6	20.7	20.1	21.1	21.6	22.1	23.2	22.6	23.6	24.1
	6H	20.0	20.9	20.4	21.4	21.9	23.1	24.0	23.6	24.5	25.0
	8H	20.0	20.9	20.5	21.4	21.9	23.5	24.4	24.0	24.9	25.4
	12H	20.1	20.9	20.6	21.4	21.9	24.1	24.8	24.6	25.4	25.9
8H	4H	20.2	21.0	20.7	21.5	22.0	22.3	23.2	22.8	23.7	24.2
	6H	20.7	21.4	21.2	21.9	22.5	23.5	24.2	24.0	24.7	25.3
	8H	20.9	21.5	21.4	22.1	22.6	24.1	24.7	24.6	25.3	25.8
	12H	21.0	21.6	21.5	22.1	22.7	24.7	25.3	25.3	25.8	26.4
12H	4H	20.3	21.1	20.8	21.6	22.1	22.3	23.1	22.9	23.7	24.2
	6H	20.9	21.6	21.5	22.1	22.7	23.6	24.2	24.1	24.7	25.3
	8H	21.2	21.7	21.7	22.3	22.9	24.2	24.8	24.7	25.3	25.9

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1986.57 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.)