



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL100 UV FR 940 @1800MA.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 SEL100 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-100-UV-PS1800-54-VDIM-LM2 LED driver set to 1800mA

[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	13688
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	90.2
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	14530	13948	13866
55	12706	12680	12736
65	10268	11118	11242
75	7539	9546	9518
85	4552	8989	8349

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1701.8	N.A.	12.40
0-30	3619.04	N.A.	26.40
0-40	5925.81	N.A.	43.30
0-60	10387.55	N.A.	75.90
0-80	12948.69	N.A.	94.60
0-90	13443.65	N.A.	98.20
10-90	13004.2	N.A.	95.00
20-40	4224.01	N.A.	30.90
20-50	6590.93	N.A.	48.20
40-70	6038.83	N.A.	44.10
60-80	2561.14	N.A.	18.70
70-80	984.04	N.A.	7.20
80-90	494.96	N.A.	3.60
90-110	243.99	N.A.	1.80
90-120	244.48	N.A.	1.80
90-130	244.48	N.A.	1.80
90-150	244.48	N.A.	1.80
90-180	244.48	N.A.	1.80
110-180	0.49	N.A.	0.00
0-180	13688.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	439.44
10-20	1262.35
20-30	1917.25
30-40	2306.77
40-50	2366.92
50-60	2094.82
60-70	1577.09
70-80	984.04
80-90	494.96
90-100	198.41
100-110	45.58
110-120	0.49
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

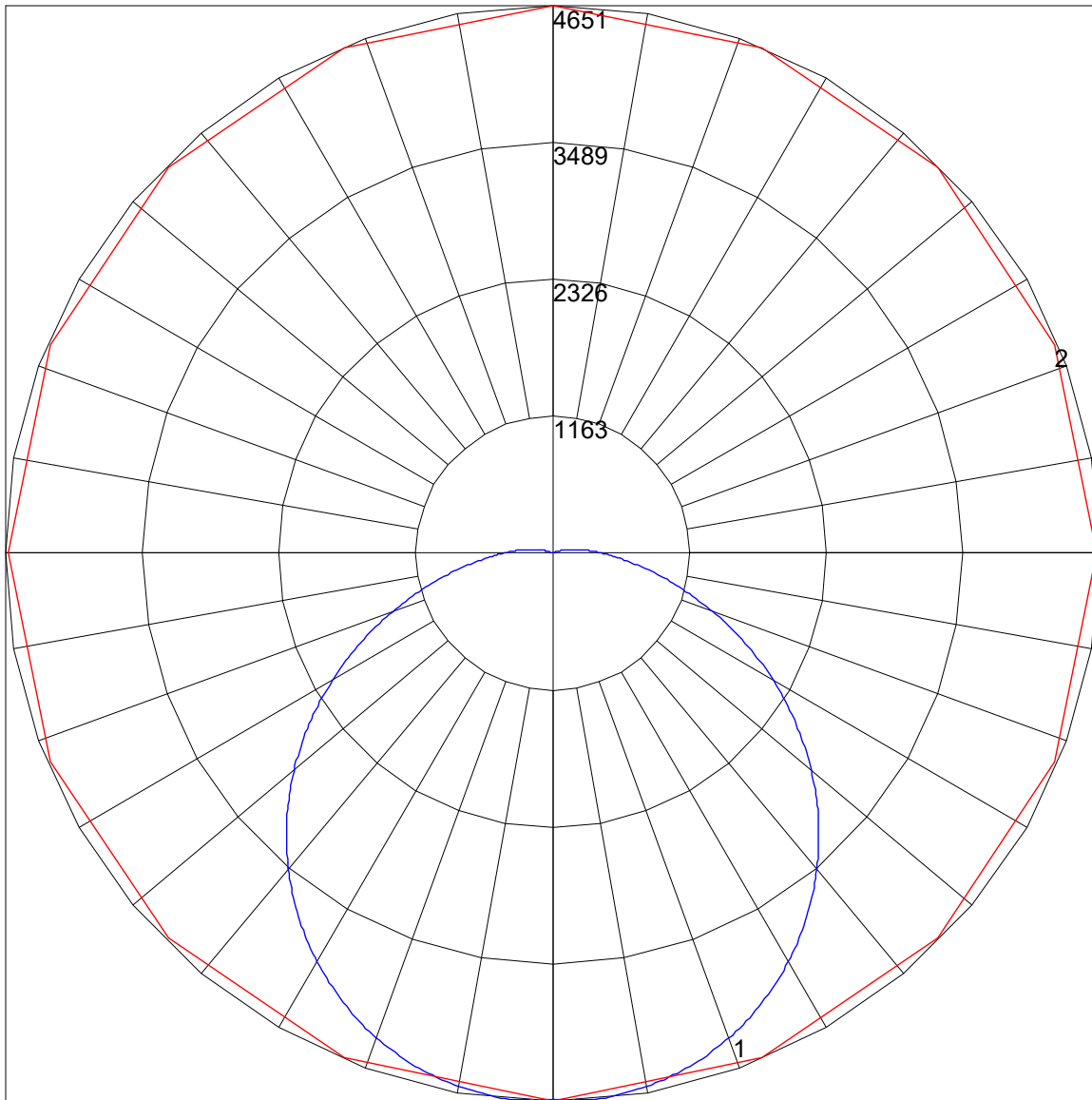
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UGR TABLE - CORRECTED

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	19.7	21.3	20.1	21.7	22.0	21.4	23.0	21.8	23.4	23.7
	3H	21.0	22.5	21.4	22.8	23.2	23.4	24.9	23.8	25.2	25.6
	4H	21.4	22.8	21.8	23.2	23.6	24.2	25.6	24.7	26.0	26.4
	6H	21.6	22.9	22.1	23.3	23.8	25.0	26.3	25.5	26.7	27.2
	8H	21.7	22.9	22.1	23.3	23.8	25.4	26.7	25.9	27.1	27.5
	12H	21.7	22.9	22.2	23.3	23.8	25.8	27.0	26.3	27.4	27.9
4H	2H	20.5	21.9	21.0	22.3	22.7	21.9	23.3	22.3	23.6	24.1
	3H	22.1	23.3	22.5	23.7	24.1	24.1	25.3	24.5	25.7	26.1
	4H	22.6	23.7	23.1	24.1	24.6	25.1	26.2	25.6	26.6	27.1
	6H	23.0	23.9	23.4	24.4	24.9	26.1	27.0	26.6	27.5	28.0
	8H	23.0	23.9	23.5	24.4	24.9	26.5	27.4	27.0	27.9	28.4
	12H	23.1	23.9	23.6	24.4	24.9	27.1	27.8	27.6	28.4	28.9
8H	4H	23.2	24.0	23.7	24.5	25.0	25.3	26.2	25.8	26.7	27.2
	6H	23.7	24.4	24.2	24.9	25.5	26.5	27.2	27.0	27.7	28.3
	8H	23.9	24.5	24.4	25.1	25.6	27.1	27.7	27.6	28.3	28.8
	12H	24.0	24.6	24.5	25.1	25.7	27.7	28.3	28.3	28.8	29.4
12H	4H	23.3	24.1	23.8	24.6	25.1	25.3	26.1	25.9	26.7	27.2
	6H	23.9	24.6	24.5	25.1	25.7	26.6	27.2	27.1	27.7	28.3
	8H	24.2	24.7	24.7	25.3	25.9	27.2	27.8	27.7	28.3	28.9

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 4651.483 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.)