



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL100 UV FR 940 @1600MA.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 1600mA

[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	12293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	79.5
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	13049	12527	12453
55	11411	11388	11438
65	9221	9984	10097
75	6771	8573	8548
85	4088	8073	7498

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Zone	Lumens	%Lamp	%Fixt
0-20	1528.34	N.A.	12.40
0-30	3250.16	N.A.	26.40
0-40	5321.81	N.A.	43.30
0-60	9328.77	N.A.	75.90
0-80	11628.85	N.A.	94.60
0-90	12073.36	N.A.	98.20
10-90	11678.71	N.A.	95.00
20-40	3793.47	N.A.	30.90
20-50	5919.13	N.A.	48.20
40-70	5423.31	N.A.	44.10
60-80	2300.08	N.A.	18.70
70-80	883.74	N.A.	7.20
80-90	444.51	N.A.	3.60
90-110	219.12	N.A.	1.80
90-120	219.56	N.A.	1.80
90-130	219.56	N.A.	1.80
90-150	219.56	N.A.	1.80
90-180	219.56	N.A.	1.80
110-180	0.44	N.A.	0.00
0-180	12292.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	394.65
10-20	1133.69
20-30	1721.83
30-40	2071.64
40-50	2125.66
50-60	1881.3
60-70	1416.34
70-80	883.74
80-90	444.51
90-100	178.18
100-110	40.94
110-120	0.44
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

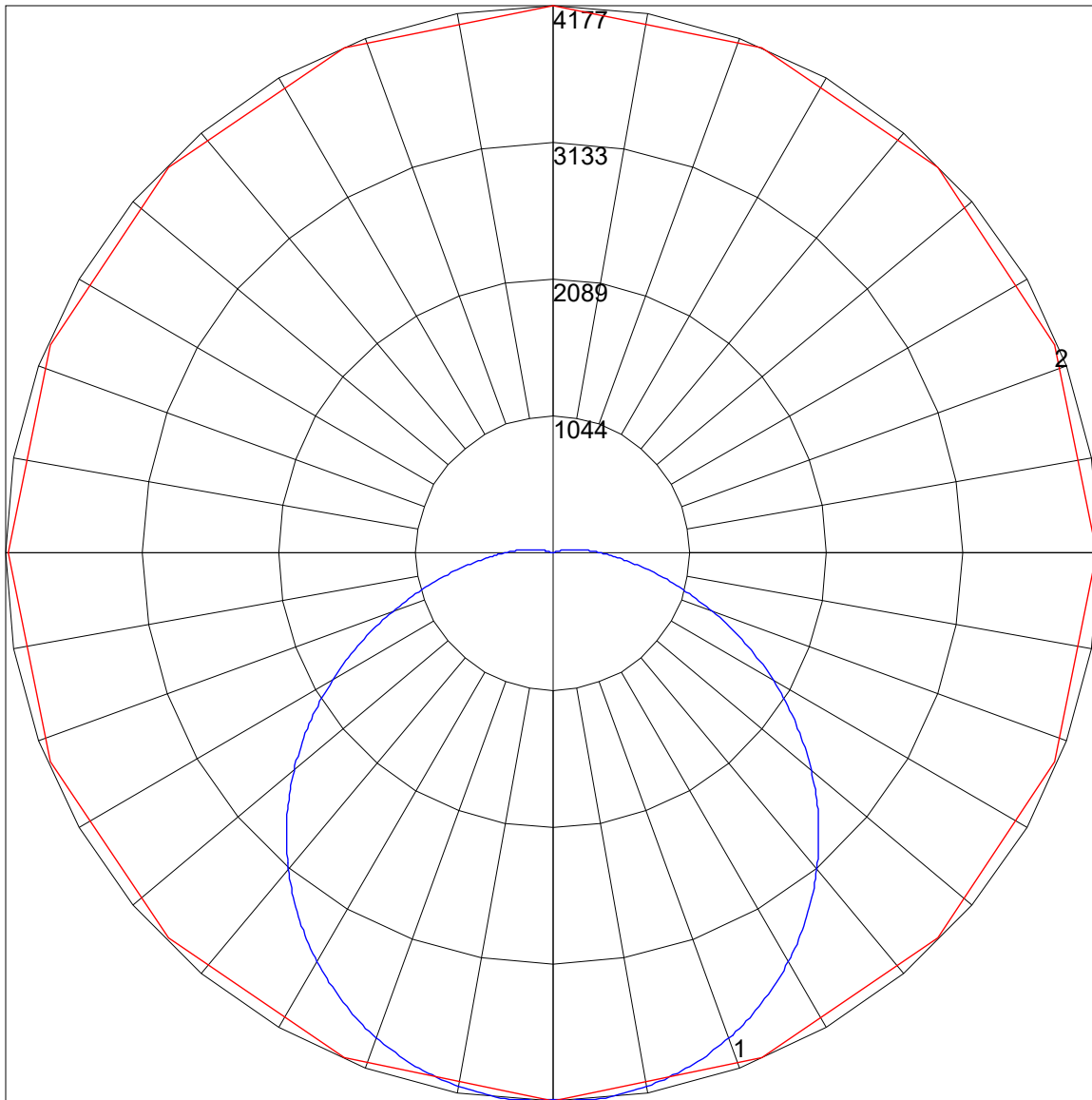
X=2H	Y=2H	19.3	20.9	19.7	21.3	21.6	21.0	22.6	21.4	23.0	23.3
	3H	20.6	22.1	21.0	22.4	22.8	23.0	24.5	23.4	24.8	25.2
	4H	21.0	22.4	21.4	22.8	23.2	23.8	25.2	24.3	25.6	26.0
	6H	21.2	22.5	21.7	22.9	23.4	24.6	25.9	25.1	26.3	26.8
	8H	21.3	22.5	21.7	22.9	23.4	25.0	26.3	25.5	26.7	27.1
	12H	21.3	22.5	21.8	22.9	23.4	25.4	26.6	25.9	27.0	27.5

UGR Viewed Endwise

4H	2H	20.1	21.5	20.6	21.9	22.3	21.5	22.9	21.9	23.2	23.7
	3H	21.7	22.9	22.1	23.3	23.7	23.7	24.9	24.1	25.3	25.7
	4H	22.2	23.3	22.7	23.7	24.2	24.7	25.8	25.2	26.2	26.7
	6H	22.6	23.5	23.0	24.0	24.5	25.7	26.6	26.2	27.1	27.6
	8H	22.6	23.5	23.1	24.0	24.5	26.1	27.0	26.6	27.5	28.0
	12H	22.7	23.5	23.2	24.0	24.5	26.7	27.4	27.2	28.0	28.5
8H	4H	22.8	23.6	23.3	24.1	24.6	24.9	25.8	25.4	26.3	26.8
	6H	23.3	24.0	23.8	24.5	25.1	26.1	26.8	26.6	27.3	27.9
	8H	23.5	24.1	24.0	24.7	25.2	26.7	27.3	27.2	27.9	28.4
	12H	23.6	24.2	24.1	24.7	25.3	27.3	27.9	27.9	28.4	29.0
12H	4H	22.9	23.7	23.4	24.2	24.7	24.9	25.7	25.5	26.3	26.8
	6H	23.5	24.2	24.1	24.7	25.3	26.2	26.8	26.7	27.3	27.9
	8H	23.8	24.3	24.3	24.9	25.5	26.8	27.4	27.3	27.9	28.5

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 4177.367 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.)