



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL100 UV 940 @1800MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 8 SEL100 UV 940

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

[MORE] no 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	14388
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	90.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17144	16555	16421
55	16871	16072	15591
65	15973	14641	14056
75	13664	11513	10714
85	7821	5213	4619

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1759.62	N.A.	12.20
0-30	3768.24	N.A.	26.20
0-40	6238.74	N.A.	43.40
0-60	11287.59	N.A.	78.50
0-80	14155.17	N.A.	98.40
0-90	14386.34	N.A.	100.00
10-90	13933.34	N.A.	96.80
20-40	4479.11	N.A.	31.10
20-50	7104.93	N.A.	49.40
40-70	6902.83	N.A.	48.00
60-80	2867.58	N.A.	19.90
70-80	1013.61	N.A.	7.00
80-90	231.16	N.A.	1.60
90-110	1.26	N.A.	0.00
90-120	1.26	N.A.	0.00
90-130	1.26	N.A.	0.00
90-150	1.26	N.A.	0.00
90-180	1.26	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	14387.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	453.00
10-20	1306.62
20-30	2008.62
30-40	2470.5
40-50	2625.82
50-60	2423.04
60-70	1853.97
70-80	1013.61
80-90	231.16
90-100	1.26
100-110	0.00
110-120	0.00
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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	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	36	30	25	23

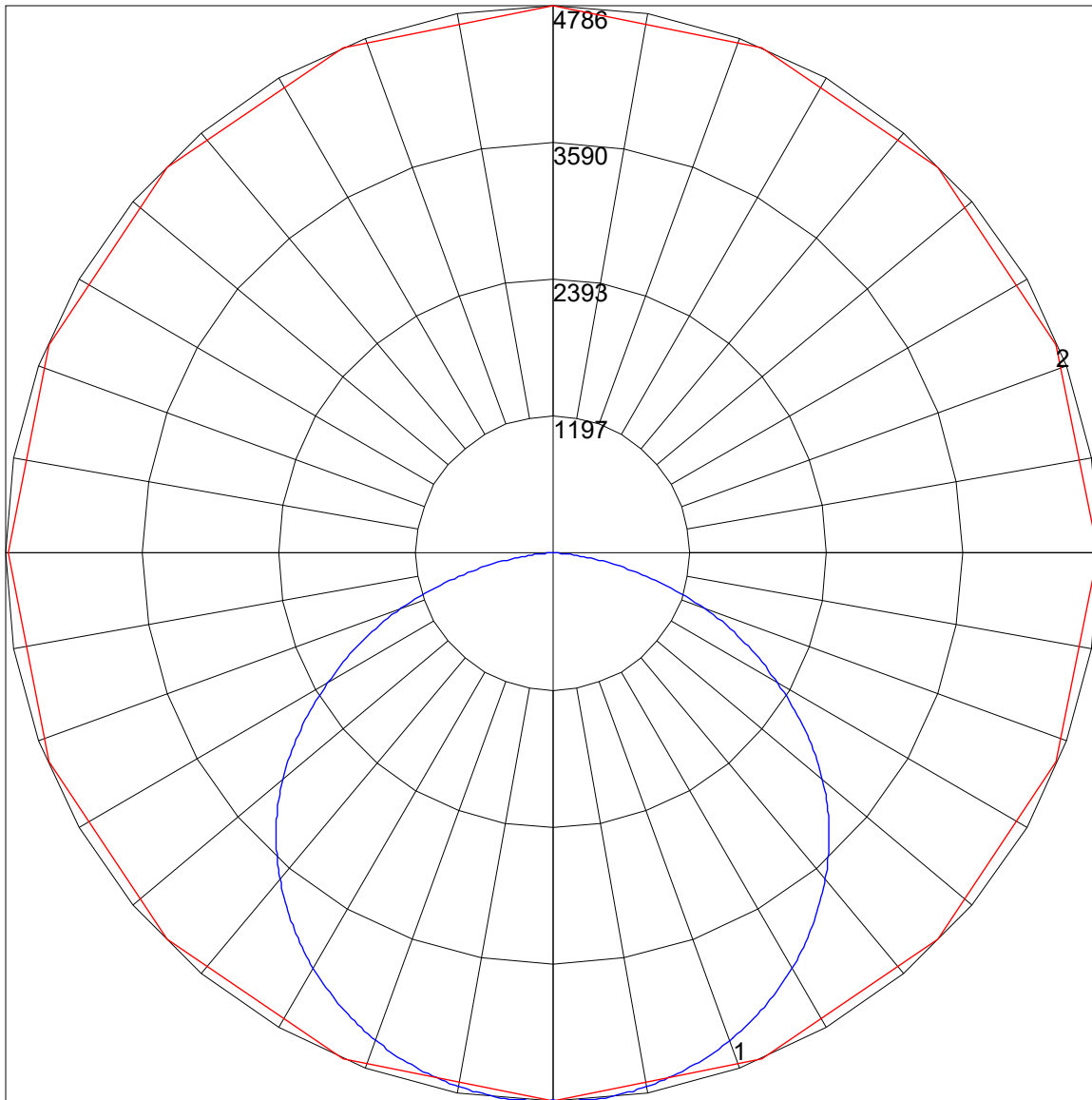
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UGR TABLE - CORRECTED

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	21.9	23.6	22.3	23.9	24.2	22.0	23.7	22.4	24.0	24.3
	3H	23.7	25.2	24.1	25.5	25.9	23.8	25.3	24.2	25.7	26.0
	4H	24.3	25.7	24.7	26.1	26.4	24.4	25.8	24.8	26.2	26.6
	6H	24.7	26.0	25.1	26.4	26.8	24.8	26.1	25.2	26.5	26.9
	8H	24.8	26.0	25.2	26.4	26.8	24.9	26.2	25.4	26.6	27.0
	12H	24.8	26.0	25.2	26.4	26.8	25.0	26.2	25.4	26.6	27.0
4H	2H	22.6	24.0	23.0	24.3	24.7	22.7	24.1	23.1	24.4	24.8
	3H	24.5	25.7	24.9	26.1	26.5	24.6	25.8	25.0	26.2	26.6
	4H	25.3	26.3	25.7	26.7	27.2	25.3	26.4	25.8	26.8	27.2
	6H	25.8	26.7	26.2	27.1	27.6	25.8	26.8	26.3	27.2	27.7
	8H	25.9	26.7	26.3	27.2	27.7	26.0	26.8	26.4	27.3	27.7
	12H	25.9	26.7	26.4	27.2	27.7	26.0	26.8	26.5	27.3	27.8
8H	4H	25.5	26.4	26.0	26.8	27.3	25.6	26.5	26.0	26.9	27.4
	6H	26.1	26.8	26.6	27.3	27.8	26.2	26.9	26.7	27.4	27.8
	8H	26.2	26.9	26.8	27.4	27.9	26.3	27.0	26.8	27.5	28.0
	12H	26.4	26.9	26.9	27.4	28.0	26.5	27.0	27.0	27.5	28.1
12H	4H	25.5	26.3	26.0	26.8	27.3	25.6	26.4	26.1	26.9	27.3
	6H	26.1	26.8	26.6	27.2	27.8	26.2	26.8	26.7	27.3	27.8
	8H	26.3	26.9	26.8	27.4	28.0	26.4	27.0	26.9	27.5	28.0

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 4786.473 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)