



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 6 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 6 SEL100 UV 940

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

[MORE] no enclosure.

[LAMPCAT] Three LS3872A 64 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)	159
Total Luminaire Watts	90.3
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)	6.00 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	22840	22061	21895
55	22468	21413	20788
65	21259	19498	18742
75	18160	15321	14286
85	10328	6917	6159

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1759.68	N.A.	12.20
0-30	3768.37	N.A.	26.20
0-40	6238.95	N.A.	43.40
0-60	11287.98	N.A.	78.50
0-80	14155.67	N.A.	98.40
0-90	14386.83	N.A.	100.00
10-90	13933.82	N.A.	96.80
20-40	4479.27	N.A.	31.10
20-50	7105.18	N.A.	49.40
40-70	6903.07	N.A.	48.00
60-80	2867.68	N.A.	19.90
70-80	1013.64	N.A.	7.00
80-90	231.17	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	14388.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	453.01
10-20	1306.67
20-30	2008.69
30-40	2470.58
40-50	2625.91
50-60	2423.12
60-70	1854.04
70-80	1013.64
80-90	231.17
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	36	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

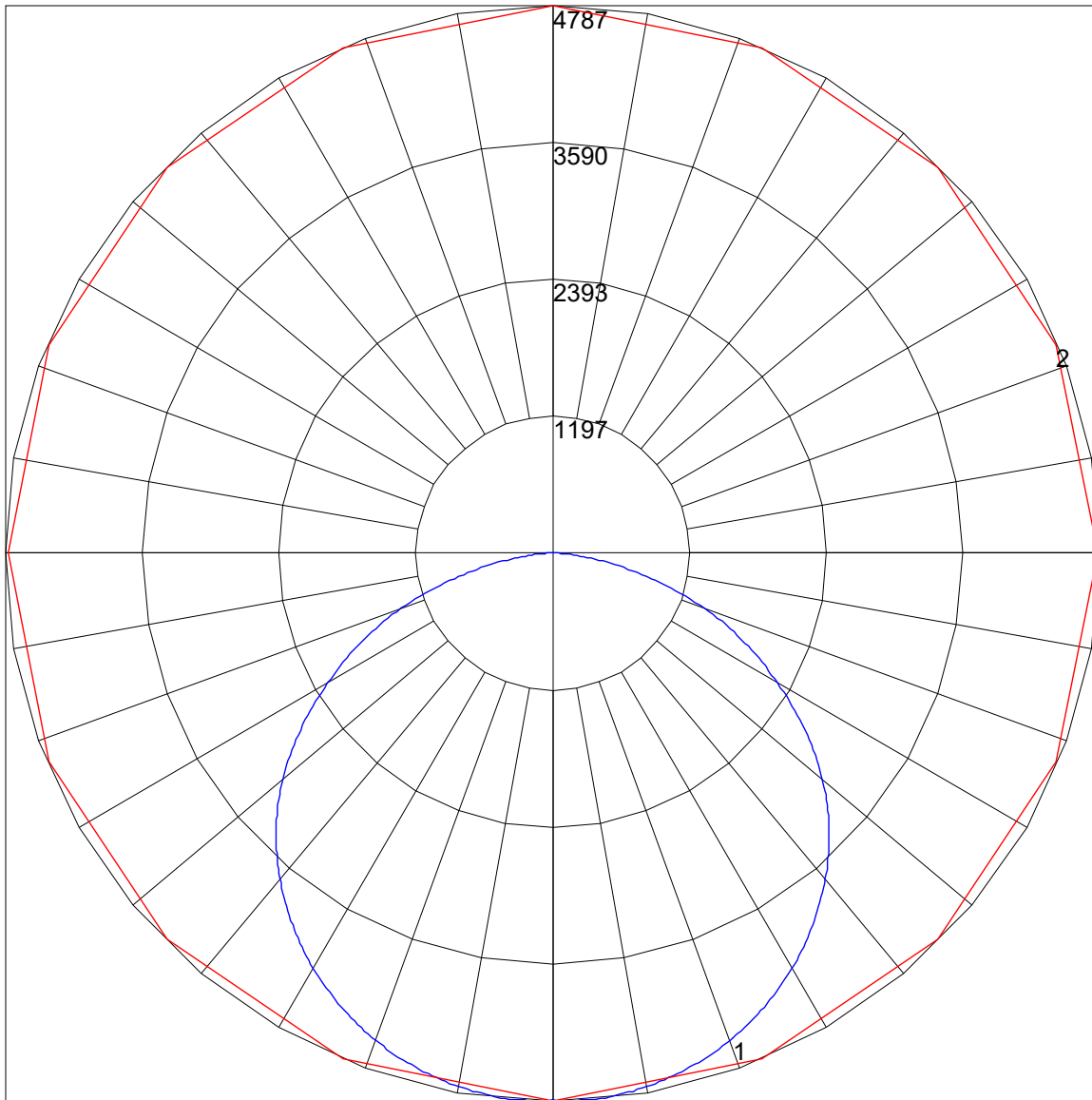
X=2H	Y=2H	22.9	24.6	23.3	24.9	25.2	23.0	24.7	23.4	25.0	25.3
	3H	24.7	26.2	25.1	26.5	26.9	24.8	26.3	25.2	26.7	27.0
	4H	25.3	26.7	25.7	27.1	27.4	25.4	26.8	25.8	27.2	27.6
	6H	25.7	27.0	26.1	27.4	27.8	25.8	27.1	26.2	27.5	27.9
	8H	25.8	27.0	26.2	27.4	27.8	25.9	27.2	26.3	27.6	28.0
	12H	25.8	27.0	26.2	27.4	27.8	26.0	27.2	26.4	27.5	28.0

UGR Viewed Endwise

4H	2H	23.6	25.0	24.0	25.3	25.7	23.7	25.1	24.1	25.4	25.8
	3H	25.5	26.7	25.9	27.1	27.5	25.6	26.8	26.0	27.2	27.6
	4H	26.3	27.3	26.7	27.7	28.2	26.3	27.4	26.7	27.8	28.2
	6H	26.8	27.7	27.2	28.1	28.6	26.8	27.8	27.3	28.2	28.6
	8H	26.9	27.7	27.3	28.2	28.7	26.9	27.8	27.4	28.3	28.7
	12H	26.9	27.7	27.4	28.2	28.7	27.0	27.8	27.5	28.3	28.8
8H	4H	26.5	27.4	27.0	27.8	28.3	26.6	27.5	27.0	27.9	28.4
	6H	27.1	27.8	27.6	28.3	28.8	27.2	27.9	27.6	28.4	28.8
	8H	27.2	27.9	27.8	28.4	28.9	27.3	28.0	27.8	28.5	29.0
	12H	27.3	27.9	27.9	28.4	29.0	27.4	28.0	28.0	28.5	29.1
12H	4H	26.5	27.3	27.0	27.8	28.3	26.6	27.4	27.1	27.9	28.3
	6H	27.1	27.8	27.6	28.2	28.8	27.2	27.8	27.7	28.3	28.8
	8H	27.3	27.9	27.8	28.4	28.9	27.4	28.0	27.9	28.5	29.0

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 4786.638 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.)