



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 6 SEL100 UV FR 935 @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 6 SEL100 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Three LS3872A 68 LED boards, 3500K

[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	13371
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	90.3
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)	6.00 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	18874	18137	18060
55	16487	16478	16587
65	13299	14435	14643
75	9727	12375	12397
85	5770	11606	10874

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1662.35	N.A.	12.40
0-30	3535.15	N.A.	26.40
0-40	5788.45	N.A.	43.30
0-60	10146.76	N.A.	75.90
0-80	12648.53	N.A.	94.60
0-90	13132.01	N.A.	98.20
10-90	12702.76	N.A.	95.00
20-40	4126.1	N.A.	30.90
20-50	6438.15	N.A.	48.20
40-70	5898.85	N.A.	44.10
60-80	2501.77	N.A.	18.70
70-80	961.23	N.A.	7.20
80-90	483.49	N.A.	3.60
90-110	238.33	N.A.	1.80
90-120	238.82	N.A.	1.80
90-130	238.82	N.A.	1.80
90-150	238.82	N.A.	1.80
90-180	238.82	N.A.	1.80
110-180	0.48	N.A.	0.00
0-180	13370.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	429.26
10-20	1233.09
20-30	1872.8
30-40	2253.29
40-50	2312.05
50-60	2046.26
60-70	1540.53
70-80	961.23
80-90	483.49
90-100	193.81
100-110	44.52
110-120	0.48
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

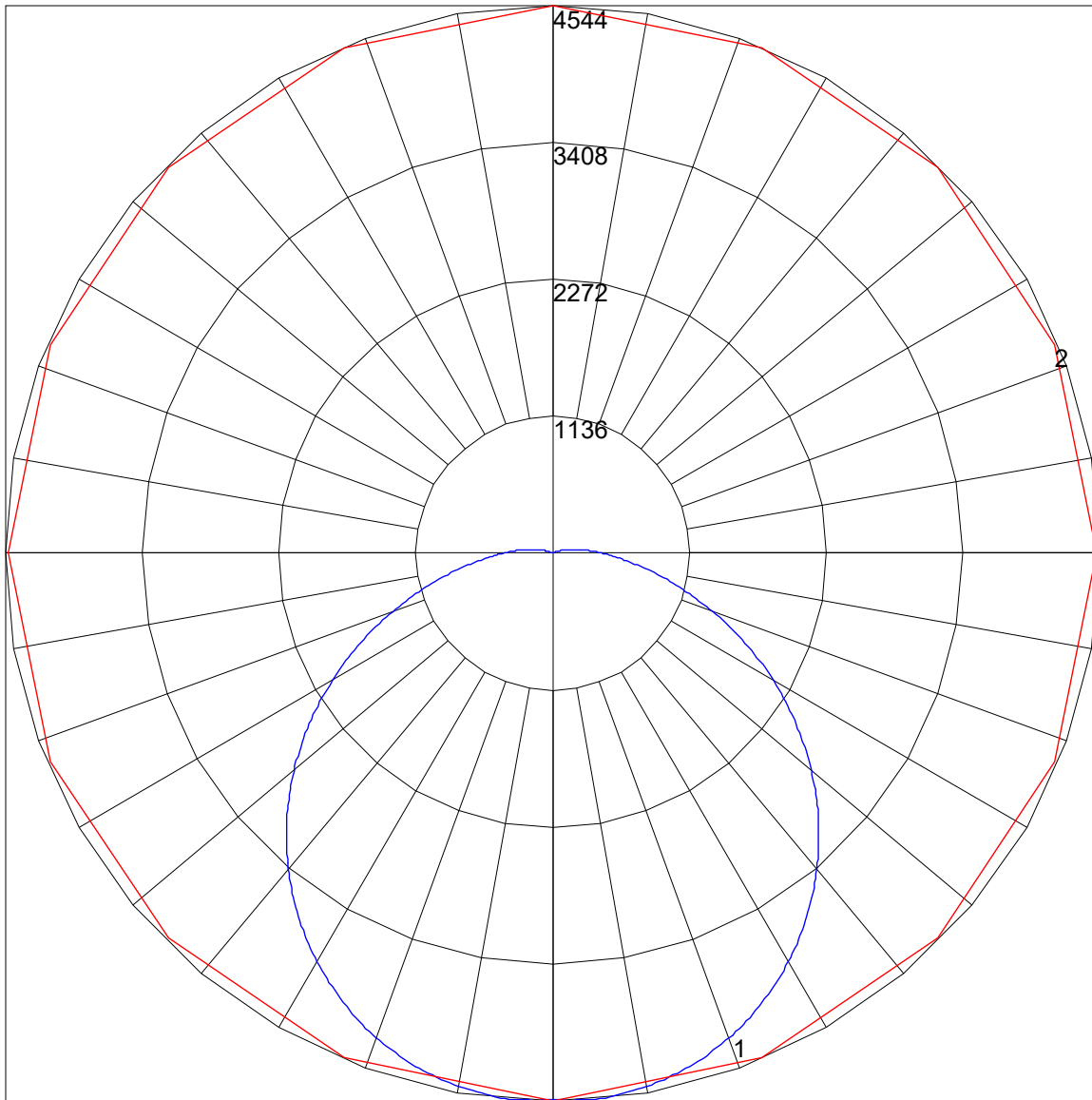
X=2H	Y=2H	20.6	22.2	21.0	22.6	22.9	22.3	23.9	22.7	24.3	24.6
	3H	21.9	23.4	22.3	23.7	24.1	24.3	25.7	24.7	26.1	26.5
	4H	22.3	23.7	22.7	24.1	24.5	25.1	26.5	25.6	26.9	27.3
	6H	22.5	23.8	23.0	24.2	24.6	25.9	27.2	26.4	27.6	28.1
	8H	22.6	23.8	23.0	24.2	24.7	26.3	27.5	26.8	28.0	28.4
	12H	22.6	23.8	23.1	24.2	24.7	26.7	27.9	27.2	28.3	28.8

### UGR Viewed Endwise

4H	2H	21.4	22.8	21.9	23.2	23.6	22.8	24.1	23.2	24.5	25.0
	3H	23.0	24.1	23.4	24.6	25.0	25.0	26.1	25.4	26.6	27.0
	4H	23.5	24.6	24.0	25.0	25.5	26.0	27.0	26.5	27.5	28.0
	6H	23.9	24.8	24.3	25.3	25.8	27.0	27.9	27.4	28.4	28.9
	8H	23.9	24.8	24.4	25.3	25.8	27.4	28.3	27.9	28.8	29.3
	12H	24.0	24.8	24.5	25.3	25.8	27.9	28.7	28.4	29.2	29.7
8H	4H	24.1	24.9	24.6	25.4	25.9	26.2	27.1	26.7	27.6	28.1
	6H	24.6	25.3	25.1	25.8	26.4	27.4	28.1	27.9	28.6	29.1
	8H	24.8	25.4	25.3	26.0	26.5	28.0	28.6	28.5	29.1	29.7
	12H	24.9	25.5	25.4	26.0	26.6	28.6	29.2	29.1	29.7	30.3
12H	4H	24.2	25.0	24.7	25.5	26.0	26.2	27.0	26.7	27.5	28.0
	6H	24.8	25.5	25.4	26.0	26.5	27.4	28.1	28.0	28.6	29.2
	8H	25.0	25.6	25.6	26.2	26.8	28.1	28.6	28.6	29.2	29.8

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 4543.659 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.)