



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL100 UV FR 940 @1700MA.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 1700mA

[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	12999
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	84.8
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	13798	13246	13168
55	12066	12041	12094
65	9750	10558	10676
75	7160	9065	9039
85	4323	8536	7928

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1616.09	N.A.	12.40
0-30	3436.77	N.A.	26.40
0-40	5627.36	N.A.	43.30
0-60	9864.38	N.A.	75.90
0-80	12296.52	N.A.	94.60
0-90	12766.55	N.A.	98.20
10-90	12349.24	N.A.	95.00
20-40	4011.27	N.A.	30.90
20-50	6258.98	N.A.	48.20
40-70	5734.69	N.A.	44.10
60-80	2432.14	N.A.	18.70
70-80	934.48	N.A.	7.20
80-90	470.03	N.A.	3.60
90-110	231.70	N.A.	1.80
90-120	232.17	N.A.	1.80
90-130	232.17	N.A.	1.80
90-150	232.17	N.A.	1.80
90-180	232.17	N.A.	1.80
110-180	0.47	N.A.	0.00
0-180	12998.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	417.31
10-20	1198.78
20-30	1820.69
30-40	2190.58
40-50	2247.71
50-60	1989.32
60-70	1497.66
70-80	934.48
80-90	470.03
90-100	188.42
100-110	43.29
110-120	0.47
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

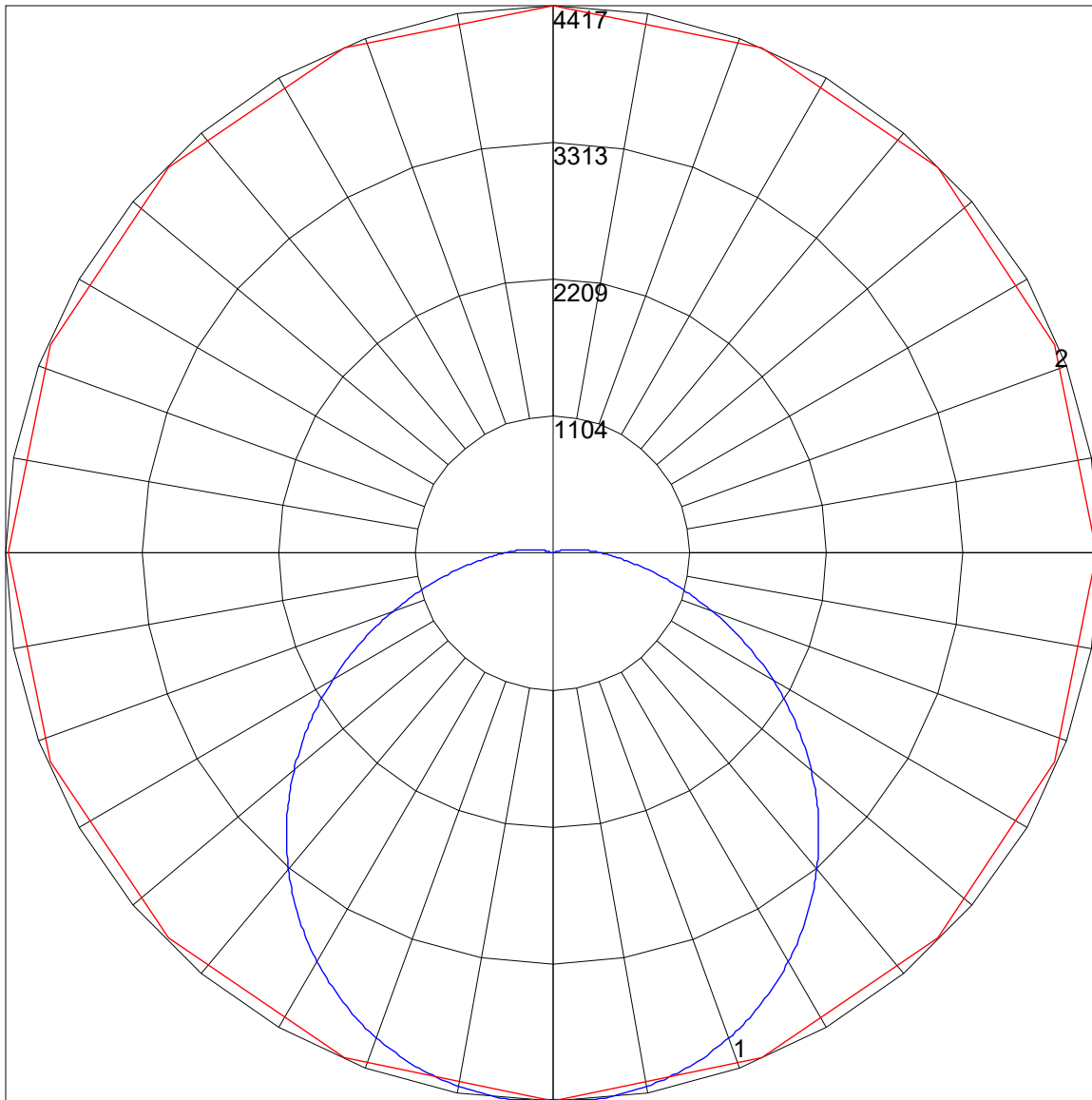
### Reflectances

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	19.5	21.1	19.9	21.5	21.8	21.2	22.8	21.6	23.2	23.5
	3H	20.8	22.3	21.2	22.6	23.0	23.2	24.7	23.6	25.0	25.4
	4H	21.2	22.6	21.6	23.0	23.4	24.0	25.4	24.5	25.8	26.2
	6H	21.4	22.7	21.9	23.1	23.6	24.8	26.1	25.3	26.5	27.0
	8H	21.5	22.7	21.9	23.1	23.6	25.2	26.5	25.7	26.9	27.3
	12H	21.5	22.7	22.0	23.1	23.6	25.6	26.8	26.1	27.2	27.7
4H	2H	20.3	21.7	20.8	22.1	22.5	21.7	23.1	22.1	23.4	23.9
	3H	21.9	23.1	22.3	23.5	23.9	23.9	25.1	24.3	25.5	25.9
	4H	22.4	23.5	22.9	23.9	24.4	24.9	26.0	25.4	26.4	26.9
	6H	22.8	23.7	23.2	24.2	24.7	25.9	26.8	26.4	27.3	27.8
	8H	22.8	23.7	23.3	24.2	24.7	26.3	27.2	26.8	27.7	28.2
	12H	22.9	23.7	23.4	24.2	24.7	26.9	27.6	27.4	28.2	28.7
8H	4H	23.0	23.8	23.5	24.3	24.8	25.1	26.0	25.6	26.5	27.0
	6H	23.5	24.2	24.0	24.7	25.3	26.3	27.0	26.8	27.5	28.1
	8H	23.7	24.3	24.2	24.9	25.4	26.9	27.5	27.4	28.1	28.6
	12H	23.8	24.4	24.3	24.9	25.5	27.5	28.1	28.1	28.6	29.2
12H	4H	23.1	23.9	23.6	24.4	24.9	25.1	25.9	25.7	26.5	27.0
	6H	23.7	24.4	24.3	24.9	25.5	26.4	27.0	26.9	27.5	28.1
	8H	24.0	24.5	24.5	25.1	25.7	27.0	27.6	27.5	28.1	28.7

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 4417.21 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.)