



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL75 UV FR 940 @1400MA.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 SEL75 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-75-UV-PS1400-54-VDIM-LM2 LED driver set to 1400mA

[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	10839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	69
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	11505	11045	10980
55	10061	10040	10084
65	8130	8803	8902
75	5970	7559	7537
85	3604	7118	6611

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1347.52	N.A.	12.40
0-30	2865.63	N.A.	26.40
0-40	4692.18	N.A.	43.30
0-60	8225.08	N.A.	75.90
0-80	10253.04	N.A.	94.60
0-90	10644.96	N.A.	98.20
10-90	10297.00	N.A.	95.00
20-40	3344.66	N.A.	30.90
20-50	5218.84	N.A.	48.20
40-70	4781.67	N.A.	44.10
60-80	2027.96	N.A.	18.70
70-80	779.19	N.A.	7.20
80-90	391.92	N.A.	3.60
90-110	193.20	N.A.	1.80
90-120	193.59	N.A.	1.80
90-130	193.59	N.A.	1.80
90-150	193.59	N.A.	1.80
90-180	193.59	N.A.	1.80
110-180	0.39	N.A.	0.00
0-180	10838.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	347.96
10-20	999.56
20-30	1518.12
30-40	1826.55
40-50	1874.17
50-60	1658.73
60-70	1248.77
70-80	779.19
80-90	391.92
90-100	157.10
100-110	36.09
110-120	0.39
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**

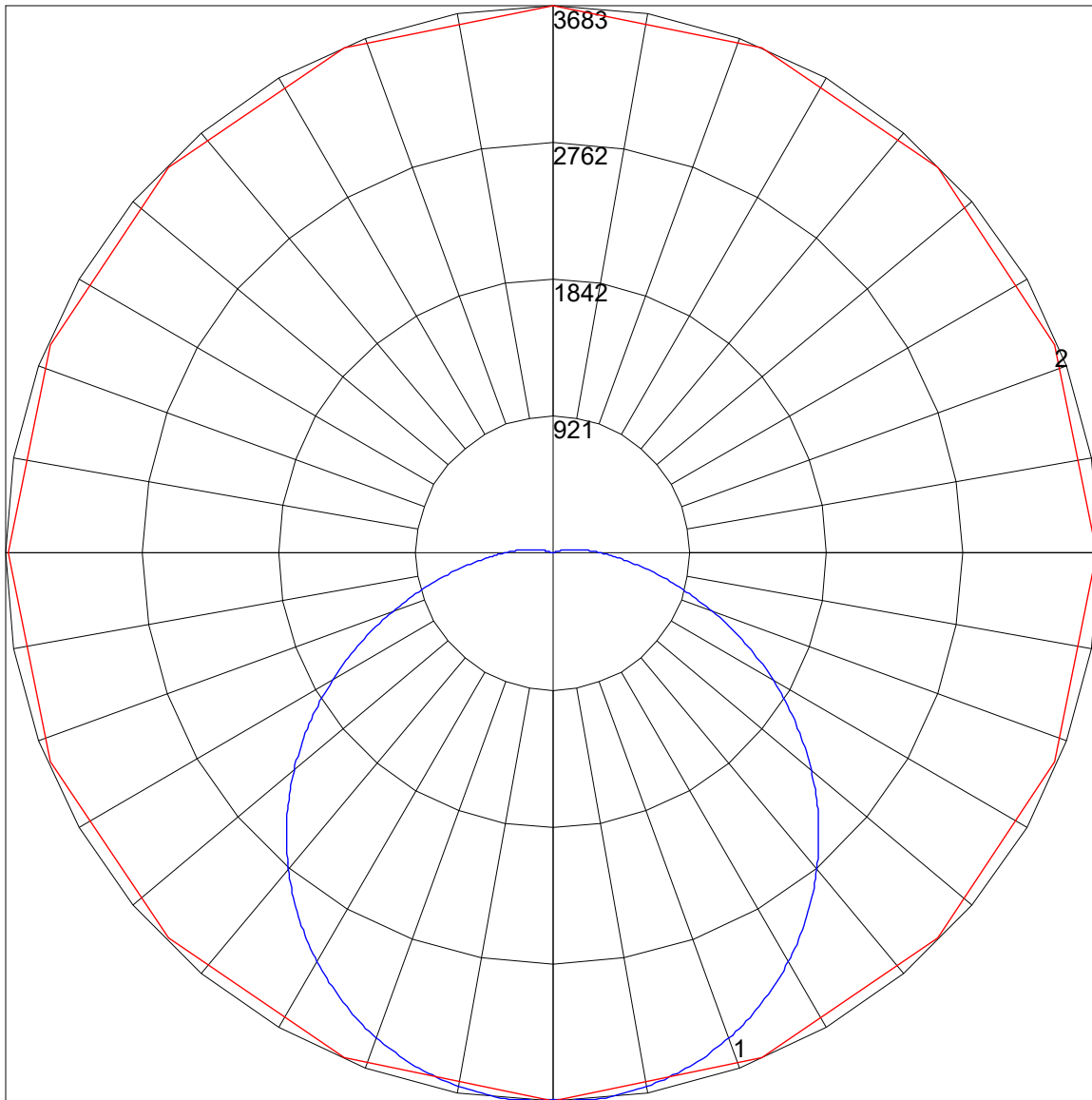
Reflectances

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	18.9	20.5	19.3	20.9	21.2	20.6	22.2	21.0	22.6	22.9
	3H	20.2	21.7	20.6	22.0	22.4	22.6	24.1	23.0	24.4	24.8
	4H	20.6	22.0	21.0	22.4	22.8	23.4	24.8	23.9	25.2	25.6
	6H	20.8	22.1	21.3	22.5	23.0	24.2	25.5	24.7	25.9	26.4
	8H	20.9	22.1	21.3	22.5	23.0	24.6	25.9	25.1	26.3	26.7
	12H	20.9	22.1	21.4	22.5	23.0	25.0	26.2	25.5	26.6	27.1
4H	2H	19.7	21.1	20.2	21.5	21.9	21.1	22.5	21.5	22.8	23.3
	3H	21.3	22.5	21.7	22.9	23.3	23.3	24.5	23.7	24.9	25.3
	4H	21.8	22.9	22.3	23.3	23.8	24.3	25.4	24.8	25.8	26.3
	6H	22.2	23.1	22.6	23.6	24.1	25.3	26.2	25.8	26.7	27.2
	8H	22.2	23.1	22.7	23.6	24.1	25.7	26.6	26.2	27.1	27.6
	12H	22.3	23.1	22.8	23.6	24.1	26.3	27.0	26.8	27.6	28.1
8H	4H	22.4	23.2	22.9	23.7	24.2	24.5	25.4	25.0	25.9	26.4
	6H	22.9	23.6	23.4	24.1	24.7	25.7	26.4	26.2	26.9	27.5
	8H	23.1	23.7	23.6	24.3	24.8	26.3	26.9	26.8	27.5	28.0
	12H	23.2	23.8	23.7	24.3	24.9	26.9	27.5	27.5	28.0	28.6
12H	4H	22.5	23.3	23.0	23.8	24.3	24.5	25.3	25.1	25.9	26.4
	6H	23.1	23.8	23.7	24.3	24.9	25.8	26.4	26.3	26.9	27.5
	8H	23.4	23.9	23.9	24.5	25.1	26.4	27.0	26.9	27.5	28.1

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 3683.141 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.)