



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL25 UV FR 940 @400MA.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 SEL25 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-25-UV-PS450-54-VDIM-LP2 LED driver set to 400mA

[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	3095
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	19.5
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	3285	3154	3135
55	2873	2867	2880
65	2322	2514	2542
75	1705	2159	2152
85	1029	2033	1888

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Zone	Lumens	%Lamp	%Fixt
0-20	384.80	N.A.	12.40
0-30	818.32	N.A.	26.40
0-40	1339.92	N.A.	43.30
0-60	2348.78	N.A.	75.90
0-80	2927.89	N.A.	94.60
0-90	3039.81	N.A.	98.20
10-90	2940.45	N.A.	95.00
20-40	955.11	N.A.	30.90
20-50	1490.31	N.A.	48.20
40-70	1365.47	N.A.	44.10
60-80	579.11	N.A.	18.70
70-80	222.51	N.A.	7.20
80-90	111.92	N.A.	3.60
90-110	55.17	N.A.	1.80
90-120	55.28	N.A.	1.80
90-130	55.28	N.A.	1.80
90-150	55.28	N.A.	1.80
90-180	55.28	N.A.	1.80
110-180	0.11	N.A.	0.00
0-180	3095.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.36
10-20	285.44
20-30	433.52
30-40	521.59
40-50	535.20
50-60	473.67
60-70	356.60
70-80	222.51
80-90	111.92
90-100	44.86
100-110	10.31
110-120	0.11
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

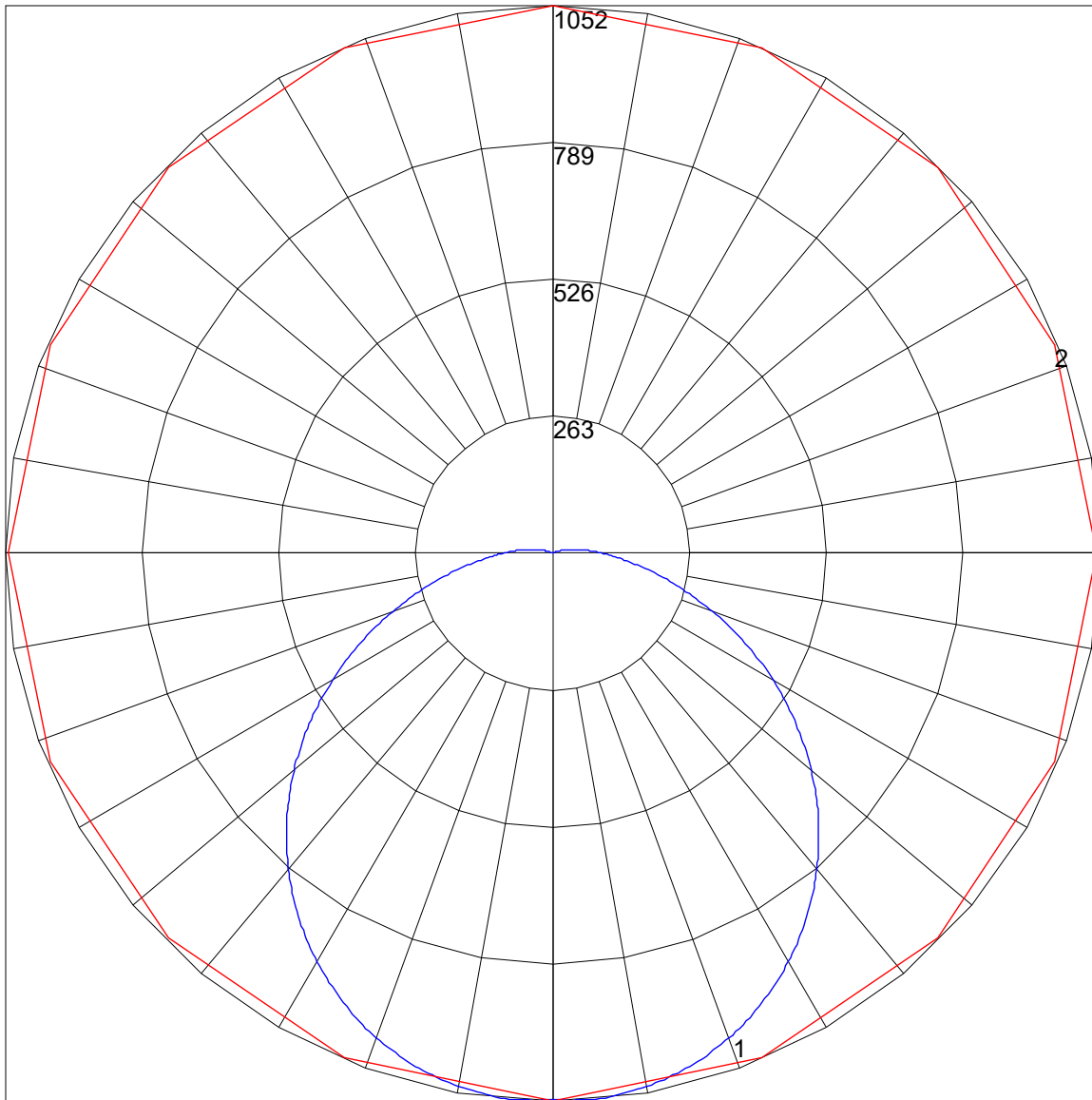
Reflectances

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	14.5	16.1	14.9	16.5	16.8	16.2	17.8	16.6	18.2	18.5
	3H	15.8	17.3	16.2	17.6	18.0	18.2	19.7	18.6	20.0	20.4
	4H	16.2	17.6	16.6	18.0	18.4	19.0	20.4	19.5	20.8	21.2
	6H	16.4	17.7	16.9	18.1	18.6	19.8	21.1	20.3	21.5	22.0
	8H	16.5	17.7	16.9	18.1	18.6	20.2	21.5	20.7	21.9	22.3
	12H	16.5	17.7	17.0	18.1	18.6	20.6	21.8	21.1	22.2	22.7
4H	2H	15.3	16.7	15.8	17.1	17.5	16.7	18.1	17.1	18.4	18.9
	3H	16.9	18.1	17.3	18.5	18.9	18.9	20.1	19.3	20.5	20.9
	4H	17.4	18.5	17.9	18.9	19.4	19.9	21.0	20.4	21.4	21.9
	6H	17.8	18.7	18.2	19.2	19.7	20.9	21.8	21.4	22.3	22.8
	8H	17.8	18.7	18.3	19.2	19.7	21.3	22.2	21.8	22.7	23.2
	12H	17.9	18.7	18.4	19.2	19.7	21.9	22.6	22.4	23.2	23.7
8H	4H	18.0	18.8	18.5	19.3	19.8	20.1	21.0	20.6	21.5	22.0
	6H	18.5	19.2	19.0	19.7	20.3	21.3	22.0	21.8	22.5	23.1
	8H	18.7	19.3	19.2	19.9	20.4	21.9	22.5	22.4	23.1	23.6
	12H	18.8	19.4	19.3	19.9	20.5	22.5	23.1	23.1	23.6	24.2
12H	4H	18.1	18.9	18.6	19.4	19.9	20.1	20.9	20.7	21.5	22.0
	6H	18.7	19.4	19.3	19.9	20.5	21.4	22.0	21.9	22.5	23.1
	8H	19.0	19.5	19.5	20.1	20.7	22.0	22.6	22.5	23.1	23.7

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1051.771 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.)