



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SEL15 UV FR 940 @270MA.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 4 SEL15 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 28 LED boards, 4000K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set to 270mA

[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	1843
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	12.2
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)	4.00 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	3881	3737	3733
55	3383	3391	3429
65	2719	2965	3027
75	1973	2534	2563
85	1132	2358	2248

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Zone	Lumens	%Lamp	%Fixt
0-20	229.09	N.A.	12.40
0-30	487.18	N.A.	26.40
0-40	797.70	N.A.	43.30
0-60	1398.32	N.A.	75.90
0-80	1743.09	N.A.	94.60
0-90	1809.72	N.A.	98.20
10-90	1750.56	N.A.	95.00
20-40	568.62	N.A.	30.90
20-50	887.24	N.A.	48.20
40-70	812.92	N.A.	44.10
60-80	344.77	N.A.	18.70
70-80	132.47	N.A.	7.20
80-90	66.63	N.A.	3.60
90-110	32.84	N.A.	1.80
90-120	32.91	N.A.	1.80
90-130	32.91	N.A.	1.80
90-150	32.91	N.A.	1.80
90-180	32.91	N.A.	1.80
110-180	0.07	N.A.	0.00
0-180	1842.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.16
10-20	169.93
20-30	258.09
30-40	310.53
40-50	318.62
50-60	282.00
60-70	212.30
70-80	132.47
80-90	66.63
90-100	26.71
100-110	6.14
110-120	0.07
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

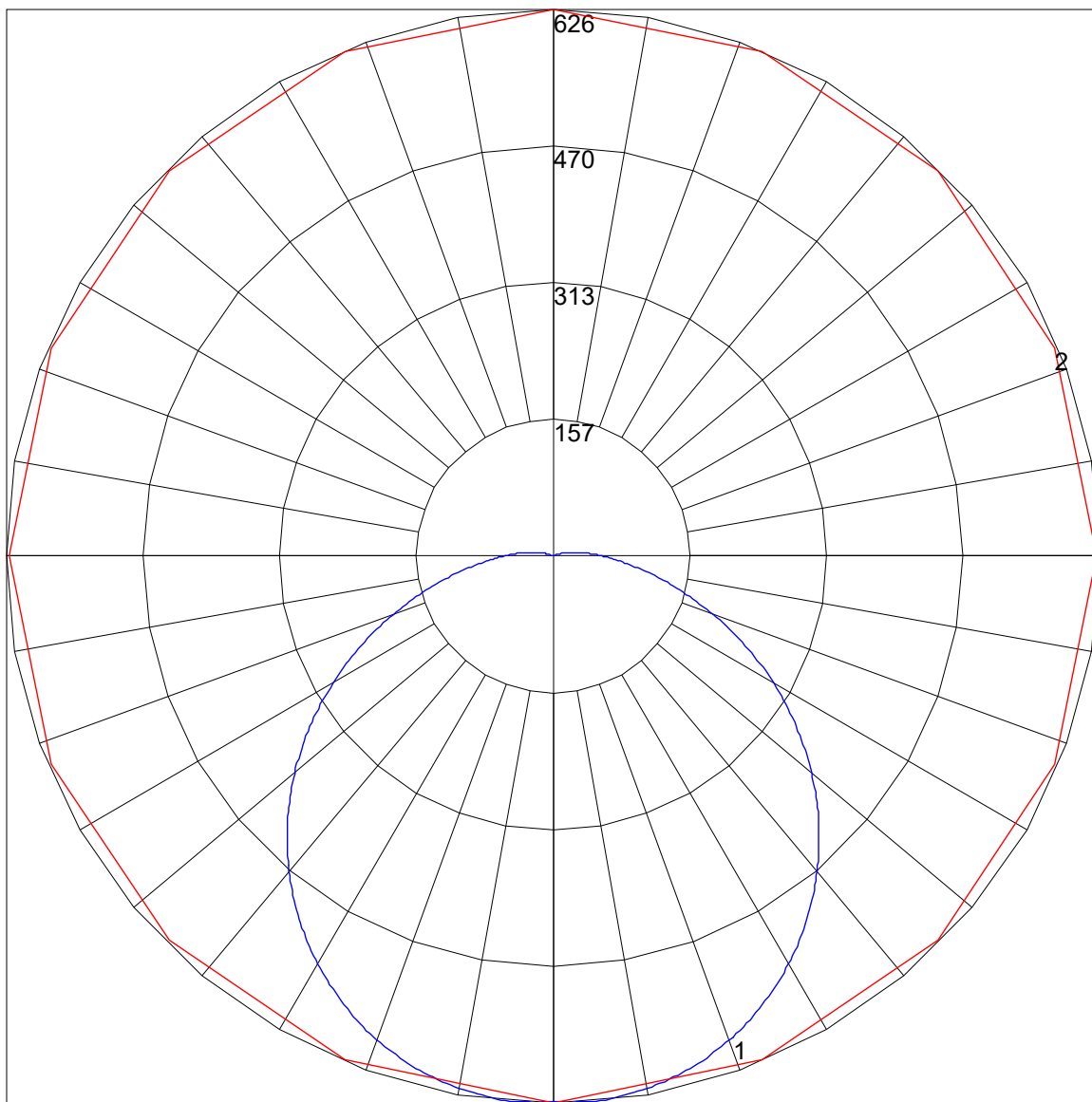
Reflectances

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	15.1	16.7	15.5	17.1	17.4	16.8	18.4	17.2	18.7	19.1
	3H	16.4	17.9	16.8	18.2	18.6	18.8	20.2	19.2	20.6	21.0
	4H	16.8	18.2	17.2	18.6	19.0	19.6	21.0	20.0	21.4	21.8
	6H	17.0	18.3	17.5	18.7	19.1	20.4	21.7	20.8	22.1	22.5
	8H	17.1	18.3	17.5	18.7	19.2	20.8	22.0	21.2	22.4	22.9
	12H	17.1	18.3	17.6	18.7	19.2	21.2	22.3	21.6	22.7	23.2
4H	2H	15.9	17.3	16.4	17.7	18.1	17.2	18.6	17.7	19.0	19.4
	3H	17.5	18.6	17.9	19.1	19.5	19.5	20.6	19.9	21.1	21.5
	4H	18.0	19.1	18.5	19.5	20.0	20.5	21.5	20.9	22.0	22.5
	6H	18.3	19.3	18.8	19.8	20.3	21.4	22.4	21.9	22.8	23.3
	8H	18.4	19.3	18.9	19.8	20.3	21.9	22.8	22.4	23.2	23.7
	12H	18.5	19.3	19.0	19.8	20.3	22.4	23.2	22.9	23.7	24.2
8H	4H	18.6	19.4	19.0	19.9	20.4	20.7	21.6	21.2	22.0	22.6
	6H	19.1	19.8	19.6	20.3	20.9	21.8	22.6	22.3	23.1	23.6
	8H	19.3	19.9	19.8	20.4	21.0	22.4	23.1	22.9	23.6	24.1
	12H	19.4	19.9	19.9	20.5	21.1	23.0	23.6	23.6	24.2	24.8
12H	4H	18.7	19.5	19.2	20.0	20.5	20.7	21.5	21.2	22.0	22.5
	6H	19.3	20.0	19.9	20.5	21.0	21.9	22.5	22.4	23.0	23.6
	8H	19.5	20.1	20.1	20.7	21.3	22.5	23.1	23.0	23.6	24.2

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 626.16 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.)