



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL15 UV 940 @230MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 8 SEL15 UV 940

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

[MORE] no enclosure.

[LAMPCAT] Four LS3872A 28 LED boards, 4000K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set at 230mA

[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	1635
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	10.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1948	1881	1866
55	1917	1826	1771
65	1815	1663	1597
75	1552	1308	1217
85	889	592	525

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	199.92	N.A.	12.20
0-30	428.13	N.A.	26.20
0-40	708.82	N.A.	43.40
0-60	1282.46	N.A.	78.50
0-80	1608.26	N.A.	98.40
0-90	1634.52	N.A.	100.00
10-90	1583.06	N.A.	96.80
20-40	508.90	N.A.	31.10
20-50	807.24	N.A.	49.40
40-70	784.27	N.A.	48.00
60-80	325.80	N.A.	19.90
70-80	115.16	N.A.	7.00
80-90	26.26	N.A.	1.60
90-110	0.14	N.A.	0.00
90-120	0.14	N.A.	0.00
90-130	0.14	N.A.	0.00
90-150	0.14	N.A.	0.00
90-180	0.14	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1634.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.47
10-20	148.45
20-30	228.21
30-40	280.69
40-50	298.34
50-60	275.30
60-70	210.64
70-80	115.16
80-90	26.26
90-100	0.14
100-110	0.00
110-120	0.00
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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	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	36	30	25	23

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UGR TABLE - CORRECTED

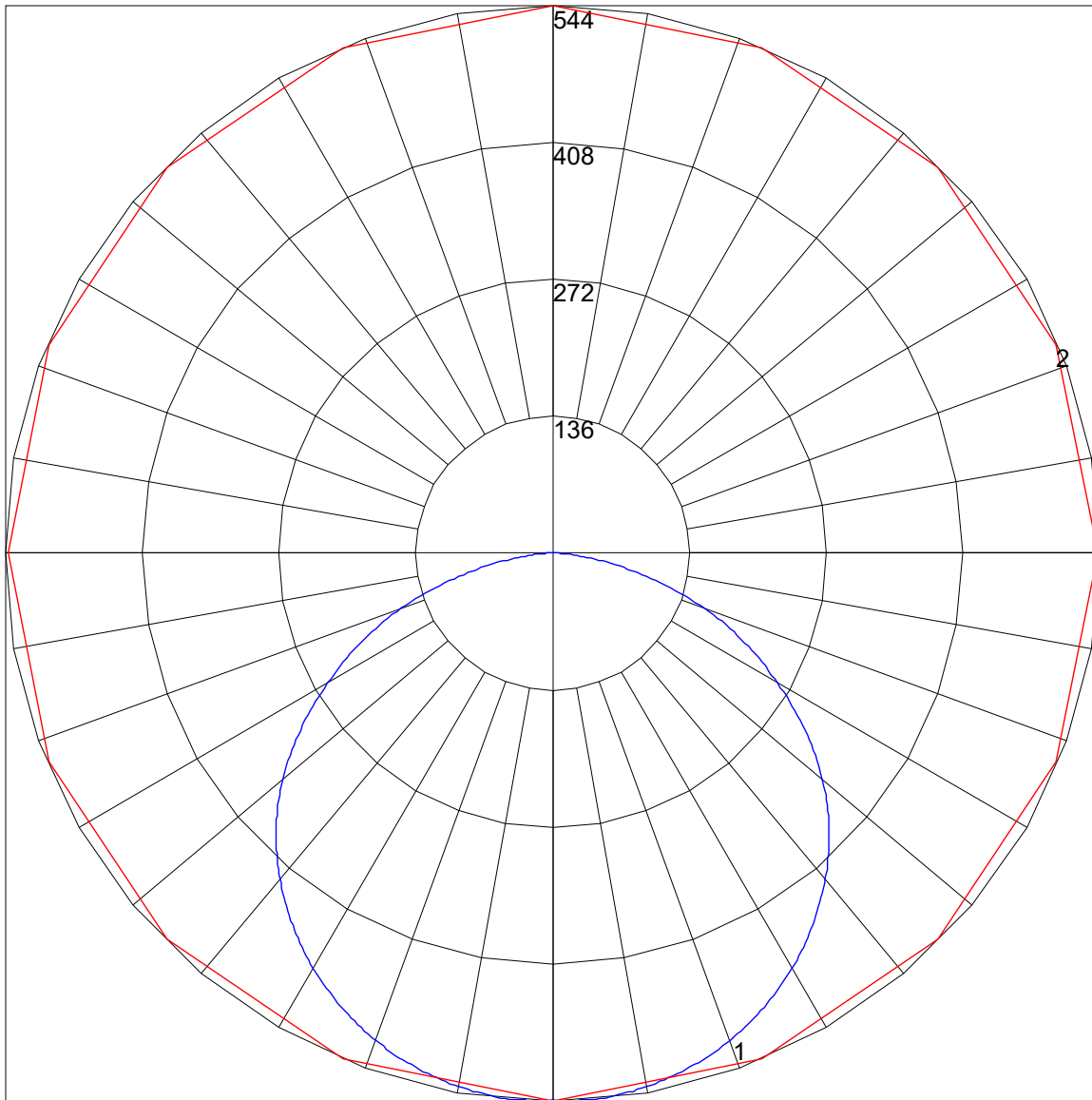
Reflectances

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	14.3	16.0	14.7	16.3	16.6	14.4	16.1	14.8	16.4	16.7
	3H	16.1	17.6	16.5	17.9	18.3	16.2	17.7	16.6	18.1	18.4
	4H	16.7	18.1	17.1	18.5	18.8	16.8	18.2	17.2	18.6	19.0
	6H	17.1	18.4	17.5	18.8	19.2	17.2	18.5	17.6	18.9	19.3
	8H	17.2	18.4	17.6	18.8	19.2	17.3	18.6	17.8	19.0	19.4
	12H	17.2	18.4	17.6	18.8	19.2	17.4	18.6	17.8	19.0	19.4
4H	2H	15.0	16.4	15.4	16.7	17.1	15.1	16.5	15.5	16.8	17.2
	3H	16.9	18.1	17.3	18.5	18.9	17.0	18.2	17.4	18.6	19.0
	4H	17.7	18.7	18.1	19.1	19.6	17.7	18.8	18.2	19.2	19.6
	6H	18.2	19.1	18.6	19.5	20.0	18.2	19.2	18.7	19.6	20.1
	8H	18.3	19.1	18.7	19.6	20.1	18.4	19.2	18.8	19.7	20.1
	12H	18.3	19.1	18.8	19.6	20.1	18.4	19.2	18.9	19.7	20.2
8H	4H	17.9	18.8	18.4	19.2	19.7	18.0	18.9	18.4	19.3	19.8
	6H	18.5	19.2	19.0	19.7	20.2	18.6	19.3	19.1	19.8	20.2
	8H	18.6	19.3	19.2	19.8	20.3	18.7	19.4	19.2	19.9	20.4
	12H	18.8	19.3	19.3	19.8	20.4	18.9	19.4	19.4	19.9	20.5
12H	4H	17.9	18.7	18.4	19.2	19.7	18.0	18.8	18.5	19.3	19.7
	6H	18.5	19.2	19.0	19.6	20.2	18.6	19.2	19.1	19.7	20.2
	8H	18.7	19.3	19.2	19.8	20.4	18.8	19.4	19.3	19.9	20.4

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 543.822 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)