



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL35 UV FR 935 @500MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 8 SEL35 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 3500K

[BALLAST] One KTLD-35-UV-PS650-54-VDIM-LM1 LED driver set at 500mA

[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	3731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.67 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7310	6504	6306
55	6368	5748	5585
65	5130	4828	4686
75	3768	3864	3672
85	2286	3139	2784

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Zone	Lumens	%Lamp	%Fixt
0-20	457.41	N.A.	12.30
0-30	972.63	N.A.	26.10
0-40	1592.44	N.A.	42.70
0-60	2791.00	N.A.	74.80
0-80	3477.29	N.A.	93.20
0-90	3611.06	N.A.	96.80
10-90	3492.9	N.A.	93.60
20-40	1135.03	N.A.	30.40
20-50	1771.13	N.A.	47.50
40-70	1621.29	N.A.	43.50
60-80	686.29	N.A.	18.40
70-80	263.57	N.A.	7.10
80-90	133.77	N.A.	3.60
90-110	89.86	N.A.	2.40
90-120	104.90	N.A.	2.80
90-130	112.85	N.A.	3.00
90-150	118.81	N.A.	3.20
90-180	119.86	N.A.	3.20
110-180	30.00	N.A.	0.80
0-180	3730.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.16
10-20	339.26
20-30	515.22
30-40	619.81
40-50	636.11
50-60	562.45
60-70	422.72
70-80	263.57
80-90	133.77
90-100	60.65
100-110	29.21
110-120	15.04
120-130	7.95
130-140	4.07
140-150	1.90
150-160	0.81
160-170	0.23
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	80
2	97	89	82	76	94	87	80	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	25
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

X=2H	Y=2H	16.7	18.3	17.1	18.7	19.1	18.8	20.4	19.2	20.7	21.1
	3H	17.9	19.4	18.4	19.8	20.2	20.8	22.2	21.2	22.6	23.0
	4H	18.3	19.6	18.7	20.0	20.5	21.6	23.0	22.1	23.4	23.8
	6H	18.5	19.7	18.9	20.2	20.6	22.4	23.7	22.9	24.1	24.6
	8H	18.5	19.7	19.0	20.2	20.6	22.8	24.0	23.2	24.4	24.9
	12H	18.5	19.7	19.0	20.1	20.6	23.2	24.3	23.7	24.8	25.3

UGR Viewed Endwise

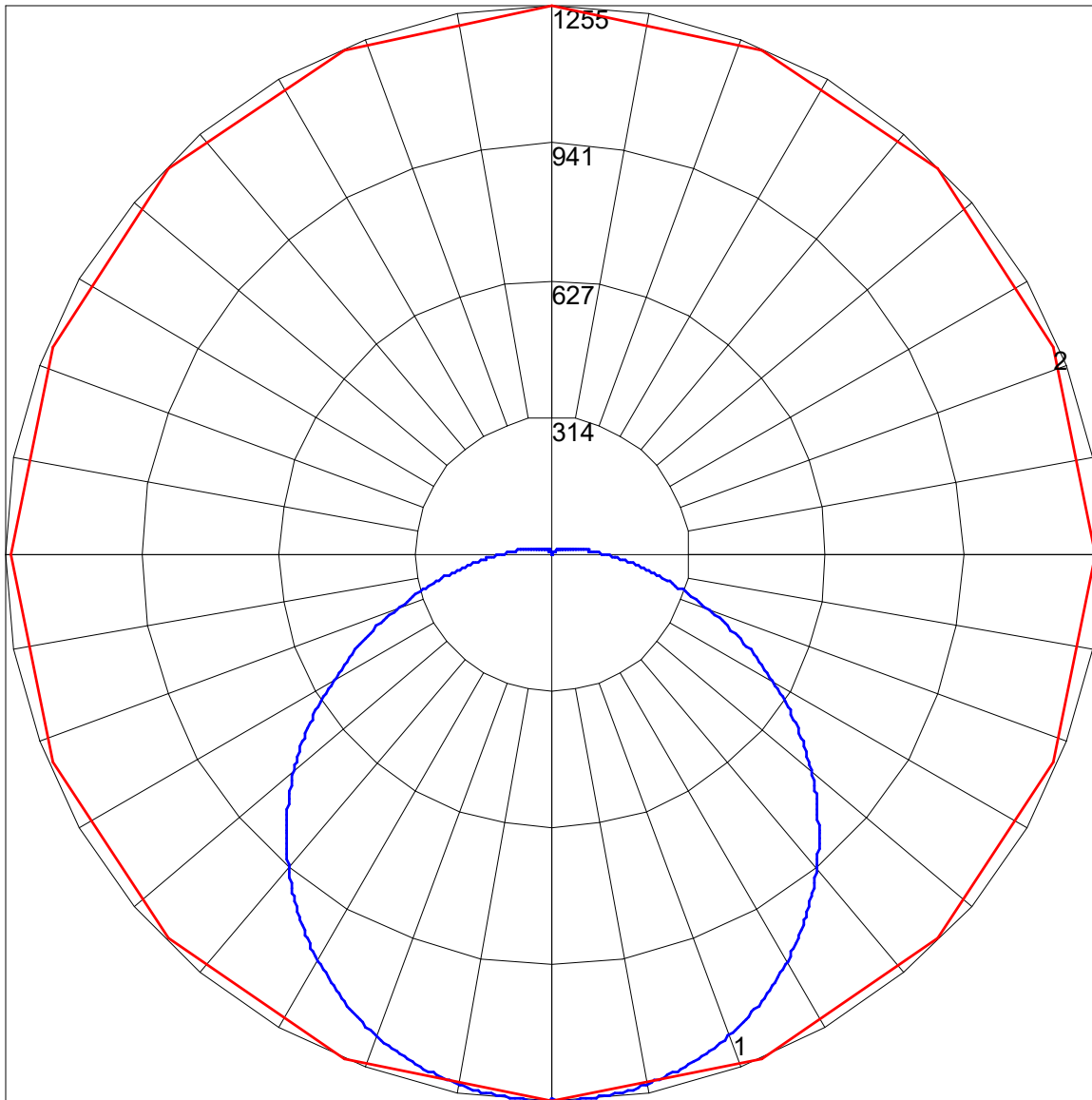
4H	2H	17.6	18.9	18.0	19.3	19.8	19.2	20.5	19.6	21.0	21.4
	3H	19.0	20.2	19.5	20.6	21.1	21.4	22.5	21.8	23.0	23.5
	4H	19.5	20.5	20.0	21.0	21.5	22.4	23.4	22.9	23.9	24.4
	6H	19.8	20.7	20.3	21.2	21.7	23.3	24.3	23.8	24.8	25.3
	8H	19.8	20.7	20.3	21.2	21.7	23.8	24.7	24.3	25.2	25.7
	12H	19.9	20.7	20.4	21.2	21.7	24.3	25.1	24.8	25.6	26.2

8H	4H	20.0	20.9	20.5	21.4	21.9	22.6	23.4	23.1	23.9	24.5
	6H	20.5	21.2	21.0	21.8	22.3	23.7	24.4	24.2	24.9	25.5
	8H	20.6	21.3	21.2	21.8	22.4	24.2	24.9	24.8	25.5	26.0
	12H	20.7	21.3	21.3	21.8	22.5	24.9	25.5	25.4	26.0	26.6

12H	4H	20.1	20.9	20.7	21.5	22.0	22.6	23.3	23.1	23.9	24.4
	6H	20.7	21.3	21.2	21.9	22.5	23.7	24.4	24.3	24.9	25.5
	8H	20.9	21.5	21.5	22.0	22.7	24.3	24.9	24.9	25.5	26.1

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 1254.797 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)