



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL35 UV FR 940 @600MA.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 4 SEL35 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-35-UV-PS650-54-VDIM-LM1 LED driver set at 600mA

[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	4596
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	29.3
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)	3.84 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	17818	15907	15495
55	15469	14035	13723
65	12392	11764	11515
75	8991	9383	9022
85	5175	7570	6840

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	563.51	N.A.	12.30
0-30	1198.22	N.A.	26.10
0-40	1961.79	N.A.	42.70
0-60	3438.35	N.A.	74.80
0-80	4283.82	N.A.	93.20
0-90	4448.61	N.A.	96.80
10-90	4303.05	N.A.	93.60
20-40	1398.28	N.A.	30.40
20-50	2181.93	N.A.	47.50
40-70	1997.33	N.A.	43.50
60-80	845.47	N.A.	18.40
70-80	324.70	N.A.	7.10
80-90	164.79	N.A.	3.60
90-110	110.70	N.A.	2.40
90-120	129.23	N.A.	2.80
90-130	139.02	N.A.	3.00
90-150	146.37	N.A.	3.20
90-180	147.66	N.A.	3.20
110-180	36.96	N.A.	0.80
0-180	4596.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	145.56
10-20	417.95
20-30	634.72
30-40	763.57
40-50	783.65
50-60	692.91
60-70	520.77
70-80	324.70
80-90	164.79
90-100	74.72
100-110	35.99
110-120	18.52
120-130	9.80
130-140	5.01
140-150	2.34
150-160	1.00
160-170	0.29
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	19.8	21.4	20.2	21.8	22.2	21.8	23.4	22.2	23.8	24.2
	3H	21.0	22.5	21.5	22.8	23.3	23.8	25.2	24.2	25.6	26.1
	4H	21.4	22.7	21.8	23.1	23.6	24.7	26.0	25.1	26.4	26.9
	6H	21.6	22.8	22.0	23.3	23.7	25.4	26.7	25.9	27.1	27.6
	8H	21.6	22.8	22.1	23.3	23.7	25.8	27.0	26.3	27.5	27.9
	12H	21.6	22.8	22.1	23.2	23.7	26.2	27.4	26.7	27.8	28.3

UGR Viewed Endwise

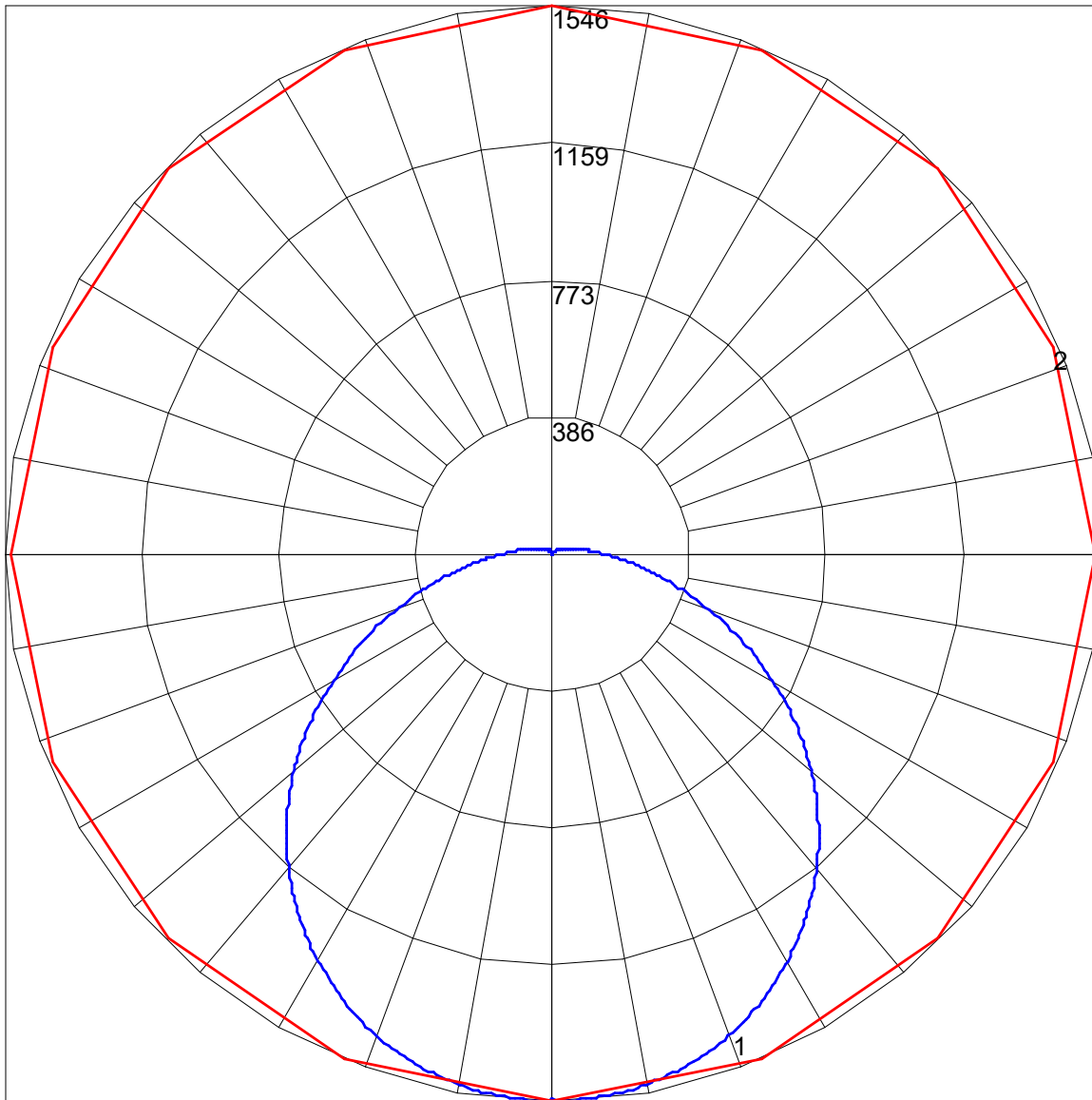
4H	2H	20.7	22.0	21.1	22.4	22.9	22.3	23.6	22.7	24.0	24.5
	3H	22.1	23.2	22.5	23.7	24.2	24.4	25.6	24.9	26.0	26.5
	4H	22.6	23.6	23.0	24.1	24.6	25.4	26.5	25.9	26.9	27.4
	6H	22.9	23.8	23.4	24.3	24.8	26.4	27.3	26.9	27.8	28.3
	8H	22.9	23.8	23.4	24.3	24.8	26.8	27.7	27.3	28.2	28.7
	12H	23.0	23.7	23.5	24.3	24.8	27.3	28.1	27.8	28.6	29.2

8H	4H	23.1	24.0	23.6	24.5	25.0	25.6	26.5	26.1	27.0	27.5
	6H	23.6	24.3	24.1	24.8	25.4	26.7	27.4	27.2	28.0	28.5
	8H	23.7	24.4	24.2	24.9	25.5	27.3	27.9	27.8	28.5	29.0
	12H	23.8	24.4	24.3	24.9	25.5	27.9	28.5	28.4	29.0	29.6

12H	4H	23.2	24.0	23.7	24.5	25.1	25.6	26.4	26.1	26.9	27.5
	6H	23.8	24.4	24.3	24.9	25.5	26.7	27.4	27.3	27.9	28.5
	8H	24.0	24.6	24.5	25.1	25.7	27.4	27.9	27.9	28.5	29.1

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 1545.836 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.)