



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 SEL45 UV FR 940 @700MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 2 SEL45 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] One LS3872A 84 LED board, 4000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set at 700mA

[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	4657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	30.5
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)	1.99 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	33614	30715	30318
55	28787	26904	26858
65	22820	22473	22780
75	16382	18019	18212
85	9051	14613	14353

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	569.36	N.A.	12.20
0-30	1211.34	N.A.	26.00
0-40	1982.51	N.A.	42.60
0-60	3465.01	N.A.	74.40
0-80	4320.07	N.A.	92.80
0-90	4492.54	N.A.	96.50
10-90	4345.56	N.A.	93.30
20-40	1413.15	N.A.	30.30
20-50	2201.21	N.A.	47.30
40-70	2006.14	N.A.	43.10
60-80	855.06	N.A.	18.40
70-80	331.42	N.A.	7.10
80-90	172.47	N.A.	3.70
90-110	119.28	N.A.	2.60
90-120	139.88	N.A.	3.00
90-130	151.20	N.A.	3.20
90-150	161.34	N.A.	3.50
90-180	164.19	N.A.	3.50
110-180	44.91	N.A.	1.00
0-180	4656.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.98
10-20	422.38
20-30	641.98
30-40	771.16
40-50	788.06
50-60	694.44
60-70	523.64
70-80	331.42
80-90	172.47
90-100	80.14
100-110	39.14
110-120	20.60
120-130	11.32
130-140	6.46
140-150	3.68
150-160	2.03
160-170	0.73
170-180	0.08

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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	96
1	107	102	98	93	104	99	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	42	35	62	49	41	35	47	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	43	36	31	42	35	31	40	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	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	21.9	23.4	22.3	23.8	24.3	24.0	25.6	24.4	26.0	26.4
	3H	23.1	24.5	23.5	24.9	25.4	26.0	27.4	26.5	27.8	28.3
	4H	23.4	24.8	23.9	25.2	25.7	26.9	28.2	27.3	28.6	29.1
	6H	23.6	24.9	24.1	25.3	25.8	27.7	28.9	28.2	29.4	29.9
	8H	23.7	24.9	24.2	25.3	25.8	28.1	29.2	28.6	29.7	30.2
	12H	23.7	24.8	24.2	25.3	25.8	28.5	29.6	29.0	30.1	30.6

UGR Viewed Endwise

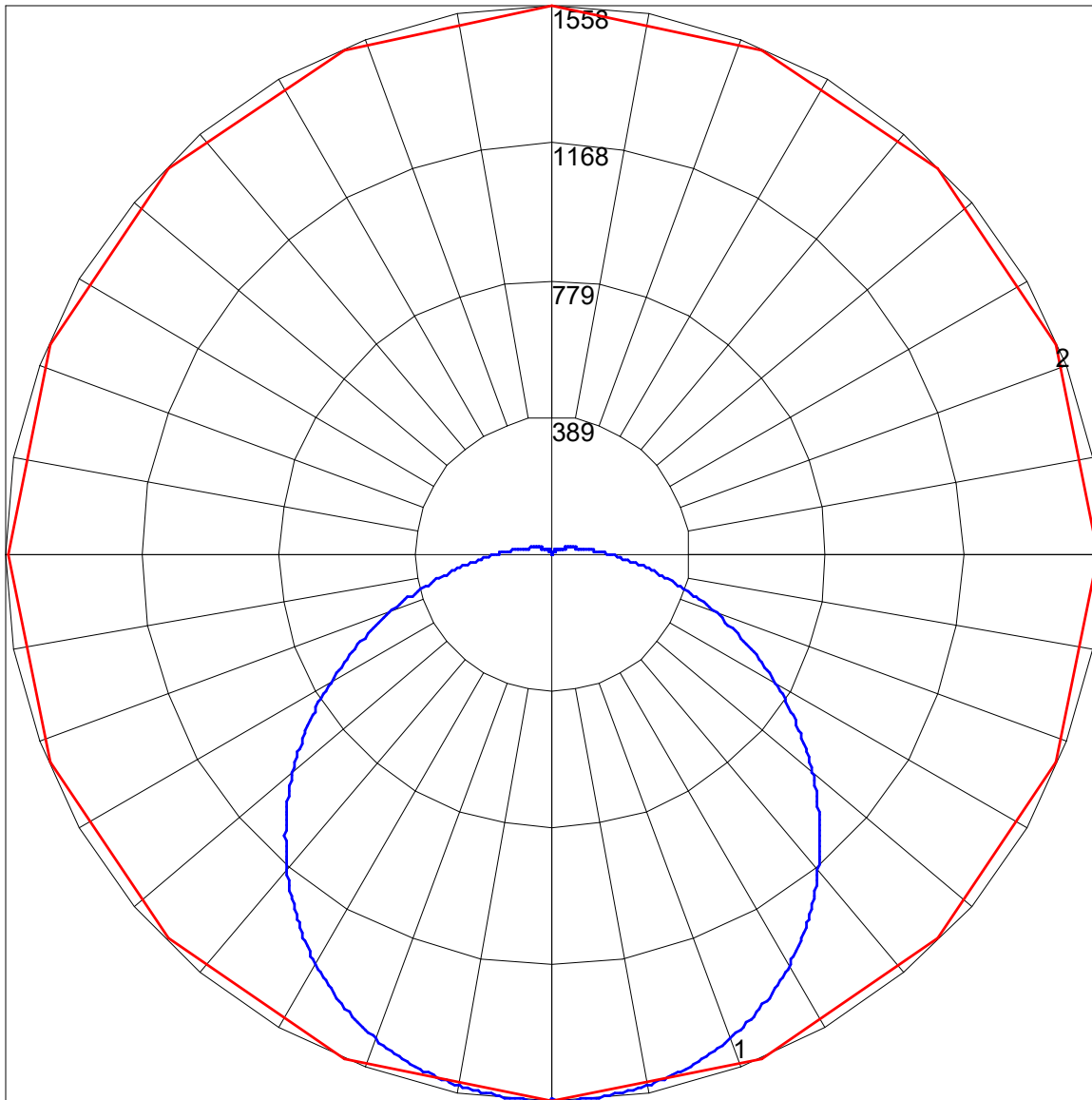
4H	2H	22.7	24.1	23.2	24.5	25.0	24.4	25.8	24.9	26.2	26.7
	3H	24.2	25.3	24.7	25.8	26.3	26.6	27.8	27.1	28.2	28.7
	4H	24.7	25.7	25.2	26.2	26.7	27.7	28.7	28.1	29.2	29.7
	6H	25.0	25.9	25.5	26.4	26.9	28.6	29.5	29.2	30.0	30.6
	8H	25.0	25.9	25.6	26.4	26.9	29.1	29.9	29.6	30.5	31.0
	12H	25.1	25.8	25.6	26.4	26.9	29.6	30.4	30.1	30.9	31.5

8H	4H	25.2	26.1	25.7	26.6	27.1	27.8	28.7	28.4	29.2	29.8
	6H	25.7	26.4	26.2	26.9	27.5	29.0	29.7	29.5	30.2	30.8
	8H	25.8	26.5	26.4	27.0	27.6	29.5	30.2	30.1	30.8	31.3
	12H	25.9	26.5	26.5	27.0	27.7	30.2	30.8	30.8	31.3	32.0

12H	4H	25.3	26.1	25.9	26.6	27.2	27.8	28.6	28.4	29.1	29.7
	6H	25.9	26.5	26.5	27.1	27.7	29.0	29.6	29.6	30.2	30.8
	8H	26.1	26.7	26.7	27.2	27.9	29.7	30.2	30.2	30.8	31.4

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 1557.776 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.)