



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 SEL35 UV FR 935 @650MA.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 SEL35 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] One LS3872A 64 LED board, 3500K

[BALLAST] One KTLD-35-UV-PS650-54-VDIM-LM1 LED driver set at 650mA

[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	4696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	32.8
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	33900	30976	30575
55	29032	27132	27087
65	23014	22664	22974
75	16521	18172	18367
85	9128	14738	14475

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	574.20	N.A.	12.20
0-30	1221.65	N.A.	26.00
0-40	1999.37	N.A.	42.60
0-60	3494.48	N.A.	74.40
0-80	4356.81	N.A.	92.80
0-90	4530.75	N.A.	96.50
10-90	4382.52	N.A.	93.30
20-40	1425.17	N.A.	30.30
20-50	2219.93	N.A.	47.30
40-70	2023.2	N.A.	43.10
60-80	862.33	N.A.	18.40
70-80	334.24	N.A.	7.10
80-90	173.94	N.A.	3.70
90-110	120.29	N.A.	2.60
90-120	141.07	N.A.	3.00
90-130	152.49	N.A.	3.20
90-150	162.71	N.A.	3.50
90-180	165.58	N.A.	3.50
110-180	45.29	N.A.	1.00
0-180	4696.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	148.23
10-20	425.97
20-30	647.44
30-40	777.72
40-50	794.77
50-60	700.34
60-70	528.09
70-80	334.24
80-90	173.94
90-100	80.82
100-110	39.47
110-120	20.78
120-130	11.41
130-140	6.52
140-150	3.71
150-160	2.05
160-170	0.74
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	65	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	41	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	22.0	23.5	22.4	23.9	24.4	24.1	25.7	24.5	26.1	26.5
	3H	23.2	24.6	23.6	25.0	25.5	26.1	27.5	26.6	27.9	28.4
	4H	23.5	24.9	24.0	25.3	25.8	27.0	28.3	27.4	28.7	29.2
	6H	23.7	25.0	24.2	25.4	25.9	27.8	29.0	28.3	29.5	30.0
	8H	23.8	25.0	24.3	25.4	25.9	28.2	29.4	28.7	29.8	30.3
	12H	23.8	24.9	24.3	25.4	25.9	28.6	29.7	29.1	30.2	30.7

### UGR Viewed Endwise

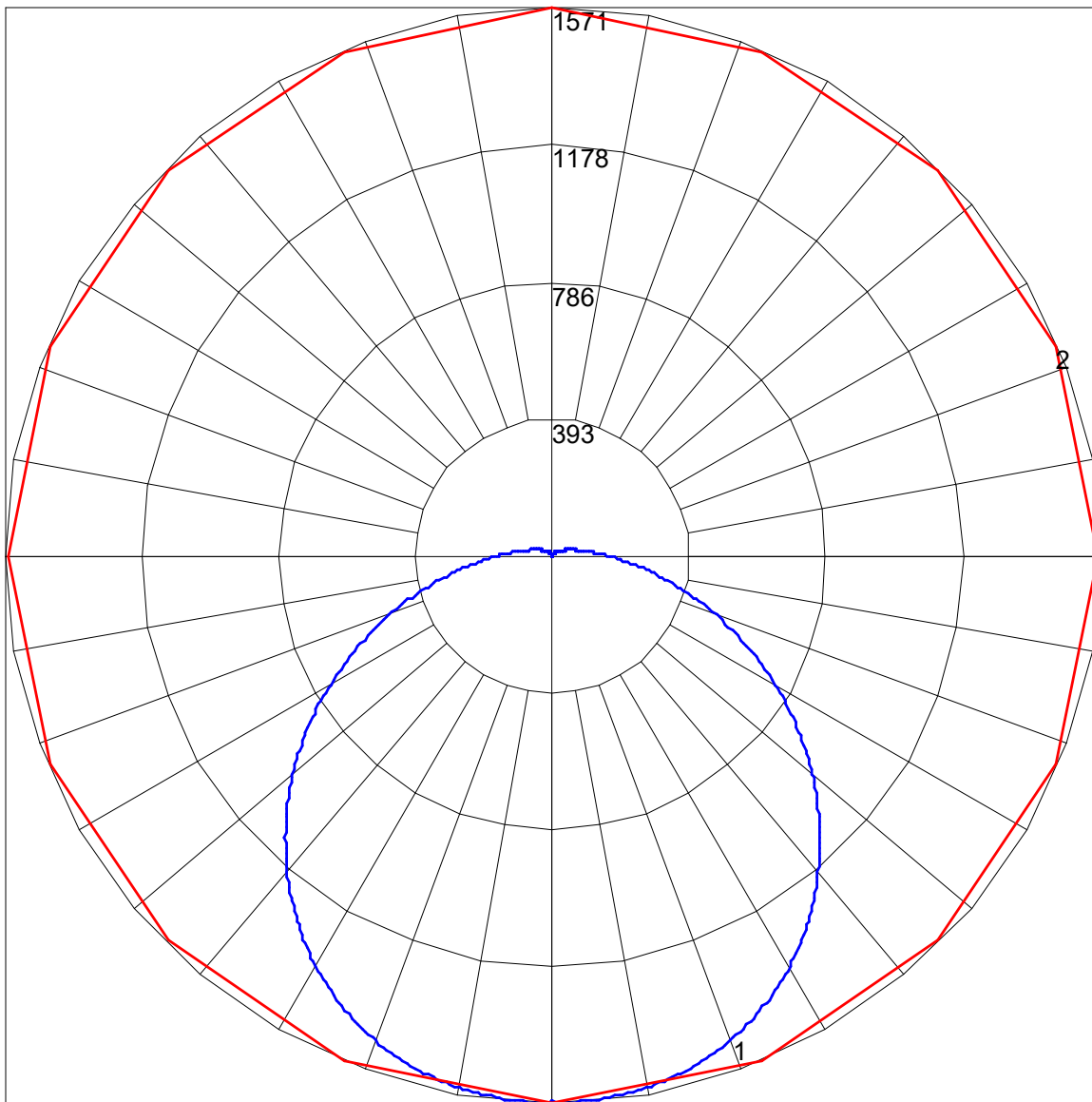
4H	2H	22.8	24.2	23.3	24.6	25.1	24.5	25.9	25.0	26.3	26.8
	3H	24.3	25.4	24.8	25.9	26.4	26.7	27.9	27.2	28.3	28.8
	4H	24.8	25.8	25.3	26.3	26.8	27.8	28.8	28.3	29.3	29.8
	6H	25.1	26.0	25.6	26.5	27.0	28.7	29.6	29.3	30.1	30.7
	8H	25.1	26.0	25.7	26.5	27.0	29.2	30.0	29.7	30.6	31.1
	12H	25.2	25.9	25.7	26.5	27.0	29.7	30.5	30.2	31.0	31.6

8H	4H	25.3	26.2	25.8	26.7	27.2	27.9	28.8	28.5	29.3	29.9
	6H	25.8	26.5	26.3	27.1	27.6	29.1	29.8	29.6	30.3	30.9
	8H	25.9	26.6	26.5	27.1	27.7	29.7	30.3	30.2	30.9	31.4
	12H	26.0	26.6	26.6	27.1	27.8	30.3	30.9	30.9	31.4	32.1

12H	4H	25.4	26.2	26.0	26.7	27.3	27.9	28.7	28.5	29.2	29.8
	6H	26.0	26.6	26.6	27.2	27.8	29.1	29.7	29.7	30.3	30.9
	8H	26.2	26.8	26.8	27.3	28.0	29.8	30.3	30.3	30.9	31.5

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 1571.025 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.)