

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL25 UV FR 935 @400MA.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 SEL25 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 3500K

[BALLAST] One KTLD-25-UV-PS450-54-VDIM-LP2 LED driver set at 400mA

[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	3000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	19.9
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	11629	10382	10113
55	10097	9160	8957
65	8088	7678	7515
75	5868	6124	5889
85	3378	4941	4464

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Zone	Lumens	%Lamp	%Fixt
0-20	367.79	N.A.	12.30
0-30	782.05	N.A.	26.10
0-40	1280.42	N.A.	42.70
0-60	2244.13	N.A.	74.80
0-80	2795.95	N.A.	93.20
0-90	2903.51	N.A.	96.80
10-90	2808.51	N.A.	93.60
20-40	912.63	N.A.	30.40
20-50	1424.1	N.A.	47.50
40-70	1303.61	N.A.	43.50
60-80	551.82	N.A.	18.40
70-80	211.92	N.A.	7.10
80-90	107.56	N.A.	3.60
90-110	72.25	N.A.	2.40
90-120	84.34	N.A.	2.80
90-130	90.74	N.A.	3.00
90-150	95.53	N.A.	3.20
90-180	96.37	N.A.	3.20
110-180	24.12	N.A.	0.80
0-180	2999.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.00
10-20	272.78
20-30	414.27
30-40	498.36
40-50	511.47
50-60	452.25
60-70	339.89
70-80	211.92
80-90	107.56
90-100	48.77
100-110	23.49
110-120	12.09
120-130	6.39
130-140	3.27
140-150	1.52
150-160	0.65
160-170	0.19
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	18.3	19.9	18.7	20.3	20.7	20.3	21.9	20.7	22.3	22.7
	3H	19.5	21.0	20.0	21.3	21.8	22.3	23.7	22.7	24.1	24.6
	4H	19.9	21.2	20.3	21.6	22.1	23.2	24.5	23.6	24.9	25.4
	6H	20.1	21.3	20.5	21.8	22.2	23.9	25.2	24.4	25.6	26.1
	8H	20.1	21.3	20.6	21.8	22.2	24.3	25.5	24.8	26.0	26.4
	12H	20.1	21.3	20.6	21.7	22.2	24.7	25.8	25.2	26.3	26.8

### UGR Viewed Endwise

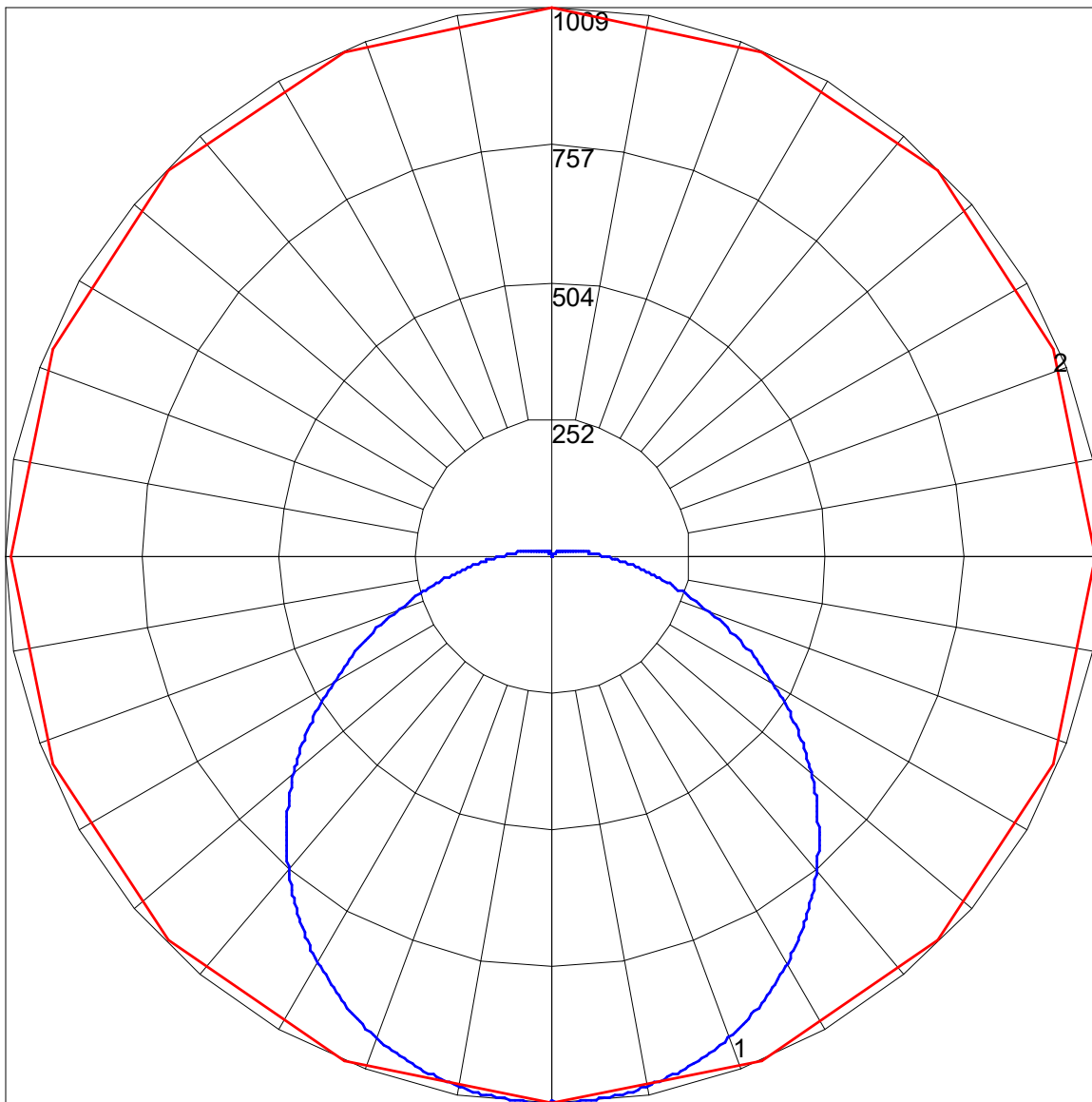
4H	2H	19.2	20.5	19.6	20.9	21.4	20.8	22.1	21.2	22.5	23.0
	3H	20.6	21.7	21.0	22.2	22.7	22.9	24.1	23.4	24.5	25.0
	4H	21.1	22.1	21.5	22.6	23.1	23.9	25.0	24.4	25.4	25.9
	6H	21.4	22.3	21.9	22.8	23.3	24.9	25.8	25.4	26.3	26.8
	8H	21.4	22.3	21.9	22.8	23.3	25.3	26.2	25.8	26.7	27.2
	12H	21.5	22.2	22.0	22.8	23.3	25.8	26.6	26.3	27.1	27.7

8H	4H	21.6	22.5	22.1	23.0	23.5	24.1	25.0	24.6	25.5	26.0
	6H	22.1	22.8	22.6	23.3	23.9	25.2	25.9	25.7	26.5	27.0
	8H	22.2	22.9	22.7	23.4	24.0	25.8	26.4	26.3	27.0	27.5
	12H	22.3	22.9	22.8	23.4	24.0	26.4	27.0	26.9	27.5	28.1

12H	4H	21.7	22.5	22.2	23.0	23.6	24.1	24.9	24.6	25.4	26.0
	6H	22.3	22.9	22.8	23.4	24.0	25.2	25.9	25.8	26.4	27.0
	8H	22.5	23.1	23.0	23.6	24.2	25.9	26.4	26.4	27.0	27.6

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1008.933 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.)