



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL35 UV FR 935 @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 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-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	4490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
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	17404	15538	15136
55	15110	13709	13405
65	12104	11491	11248
75	8783	9166	8813
85	5055	7395	6681

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	550.43	N.A.	12.30
0-30	1170.43	N.A.	26.10
0-40	1916.28	N.A.	42.70
0-60	3358.58	N.A.	74.80
0-80	4184.43	N.A.	93.20
0-90	4345.4	N.A.	96.80
10-90	4203.22	N.A.	93.60
20-40	1365.84	N.A.	30.40
20-50	2131.31	N.A.	47.50
40-70	1950.99	N.A.	43.50
60-80	825.85	N.A.	18.40
70-80	317.16	N.A.	7.10
80-90	160.97	N.A.	3.60
90-110	108.14	N.A.	2.40
90-120	126.23	N.A.	2.80
90-130	135.80	N.A.	3.00
90-150	142.98	N.A.	3.20
90-180	144.23	N.A.	3.20
110-180	36.10	N.A.	0.80
0-180	4489.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	142.18
10-20	408.25
20-30	619.99
30-40	745.85
40-50	765.47
50-60	676.84
60-70	508.69
70-80	317.16
80-90	160.97
90-100	72.99
100-110	35.15
110-120	18.09
120-130	9.57
130-140	4.90
140-150	2.28
150-160	0.98
160-170	0.28
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	19.7	21.3	20.1	21.7	22.1	21.7	23.3	22.1	23.7	24.1
	3H	20.9	22.4	21.4	22.7	23.2	23.7	25.1	24.1	25.5	26.0
	4H	21.3	22.6	21.7	23.0	23.5	24.6	25.9	25.0	26.3	26.8
	6H	21.5	22.7	21.9	23.2	23.6	25.3	26.6	25.8	27.0	27.5
	8H	21.5	22.7	22.0	23.2	23.6	25.7	26.9	26.2	27.4	27.8
	12H	21.5	22.7	22.0	23.1	23.6	26.1	27.2	26.6	27.7	28.2

### UGR Viewed Endwise

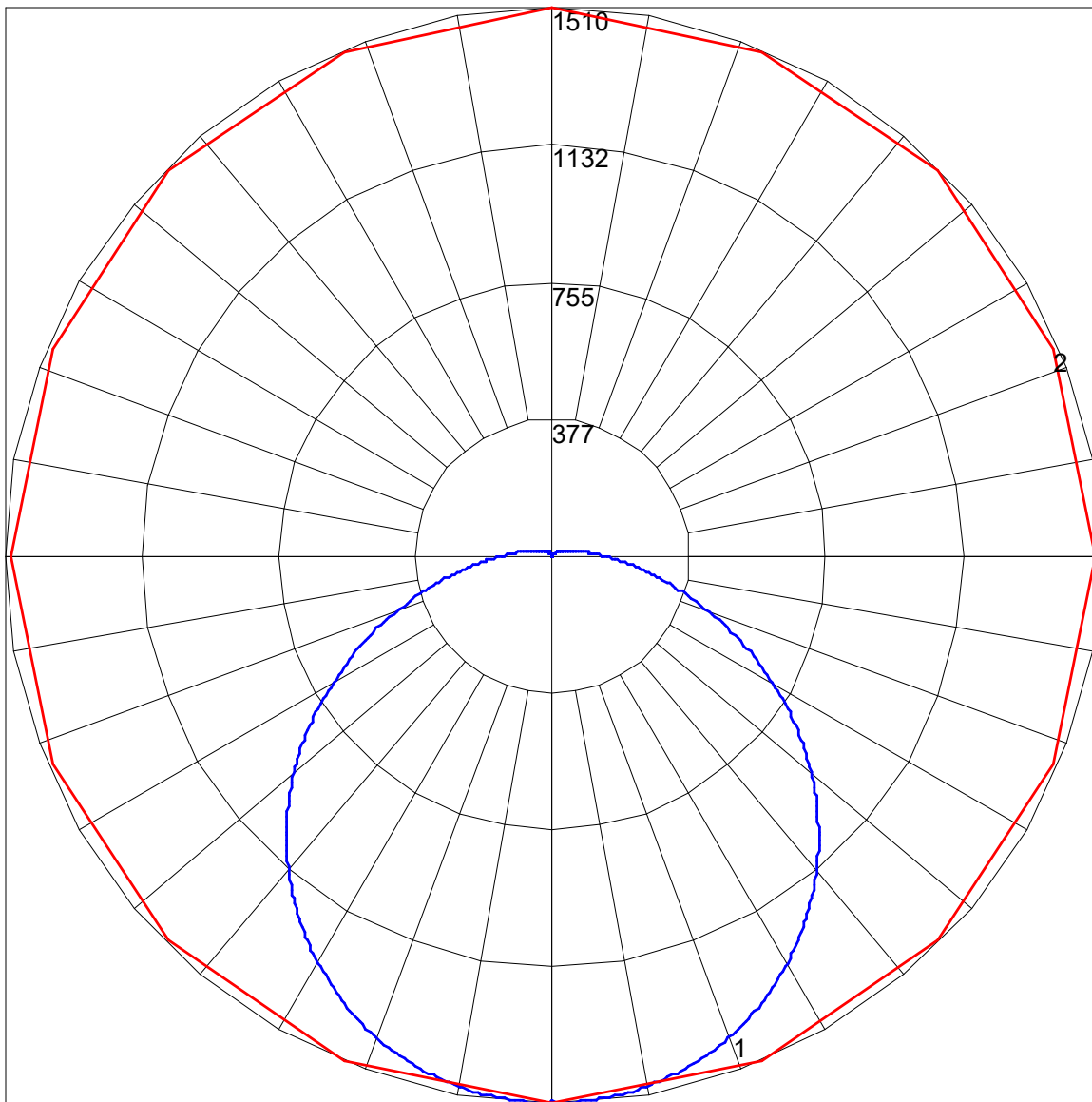
4H	2H	20.6	21.9	21.0	22.3	22.8	22.2	23.5	22.6	23.9	24.4
	3H	22.0	23.1	22.4	23.6	24.1	24.3	25.5	24.8	25.9	26.4
	4H	22.5	23.5	22.9	24.0	24.5	25.3	26.4	25.8	26.8	27.3
	6H	22.8	23.7	23.3	24.2	24.7	26.3	27.2	26.8	27.7	28.2
	8H	22.8	23.7	23.3	24.2	24.7	26.7	27.6	27.2	28.1	28.6
	12H	22.9	23.6	23.4	24.2	24.7	27.2	28.0	27.7	28.5	29.1

8H	4H	23.0	23.9	23.5	24.4	24.9	25.5	26.4	26.0	26.9	27.4
	6H	23.5	24.2	24.0	24.7	25.3	26.6	27.3	27.1	27.9	28.4
	8H	23.6	24.3	24.1	24.8	25.4	27.2	27.8	27.7	28.4	28.9
	12H	23.7	24.3	24.2	24.8	25.4	27.8	28.4	28.3	28.9	29.5

12H	4H	23.1	23.9	23.6	24.4	25.0	25.5	26.3	26.0	26.8	27.4
	6H	23.7	24.3	24.2	24.8	25.4	26.6	27.3	27.2	27.8	28.4
	8H	23.9	24.5	24.4	25.0	25.6	27.3	27.8	27.8	28.4	29.0

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 1509.972 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.)