



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL45 UV FR 935 @750MA.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 SEL45 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-45-UV-PS850-54-VDIM-LM1 LED driver set at 750mA

[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	5564
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	37.5
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)	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	21568	19255	18757
55	18725	16989	16612
65	15000	14240	13939
75	10884	11358	10921
85	6265	9164	8279

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	682.12	N.A.	12.30
0-30	1450.44	N.A.	26.10
0-40	2374.72	N.A.	42.70
0-60	4162.08	N.A.	74.80
0-80	5185.51	N.A.	93.20
0-90	5384.99	N.A.	96.80
10-90	5208.79	N.A.	93.60
20-40	1692.61	N.A.	30.40
20-50	2641.2	N.A.	47.50
40-70	2417.74	N.A.	43.50
60-80	1023.43	N.A.	18.40
70-80	393.04	N.A.	7.10
80-90	199.48	N.A.	3.60
90-110	134.01	N.A.	2.40
90-120	156.43	N.A.	2.80
90-130	168.29	N.A.	3.00
90-150	177.18	N.A.	3.20
90-180	178.74	N.A.	3.20
110-180	44.73	N.A.	0.80
0-180	5563.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	176.20
10-20	505.92
20-30	768.32
30-40	924.29
40-50	948.60
50-60	838.76
60-70	630.38
70-80	393.04
80-90	199.48
90-100	90.45
100-110	43.56
110-120	22.42
120-130	11.86
130-140	6.07
140-150	2.83
150-160	1.21
160-170	0.35
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	20.5	22.1	20.9	22.5	22.9	22.5	24.1	22.9	24.5	24.9
	3H	21.7	23.2	22.2	23.5	24.0	24.5	25.9	24.9	26.3	26.8
	4H	22.1	23.4	22.5	23.8	24.3	25.4	26.7	25.8	27.1	27.6
	6H	22.3	23.5	22.7	24.0	24.4	26.1	27.4	26.6	27.8	28.3
	8H	22.3	23.5	22.8	24.0	24.4	26.5	27.7	27.0	28.2	28.6
	12H	22.3	23.5	22.8	23.9	24.4	26.9	28.1	27.4	28.5	29.0

### UGR Viewed Endwise

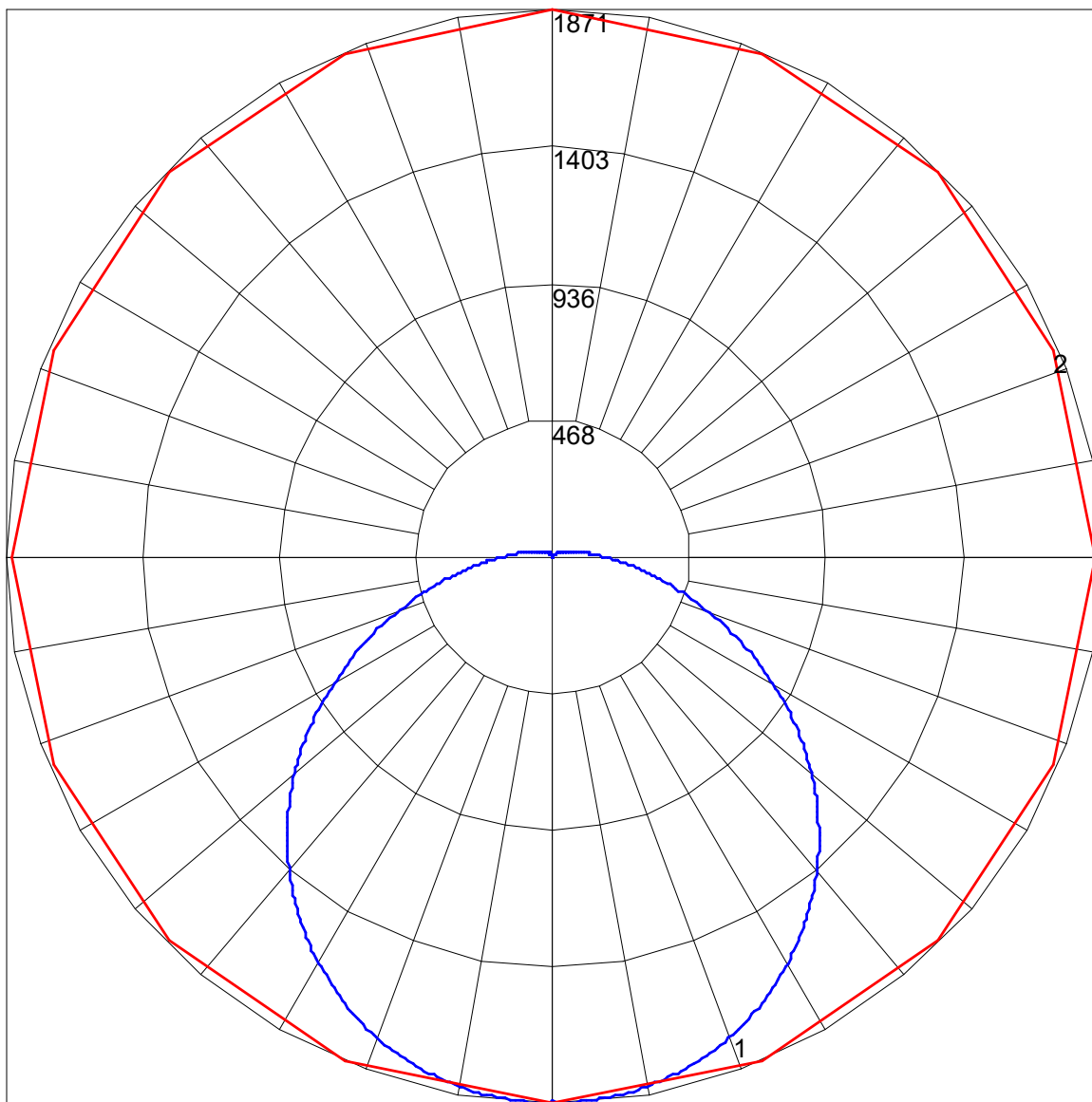
4H	2H	21.4	22.7	21.8	23.1	23.6	23.0	24.3	23.4	24.7	25.2
	3H	22.8	23.9	23.2	24.4	24.9	25.1	26.3	25.6	26.7	27.2
	4H	23.3	24.3	23.7	24.8	25.3	26.1	27.2	26.6	27.6	28.1
	6H	23.6	24.5	24.1	25.0	25.5	27.1	28.0	27.6	28.5	29.0
	8H	23.6	24.5	24.1	25.0	25.5	27.5	28.4	28.0	28.9	29.4
	12H	23.7	24.4	24.2	25.0	25.5	28.0	28.8	28.5	29.3	29.9

8H	4H	23.8	24.7	24.3	25.2	25.7	26.3	27.2	26.8	27.7	28.2
	6H	24.3	25.0	24.8	25.5	26.1	27.4	28.1	27.9	28.7	29.2
	8H	24.4	25.1	24.9	25.6	26.2	28.0	28.6	28.5	29.2	29.7
	12H	24.5	25.1	25.0	25.6	26.2	28.6	29.2	29.1	29.7	30.3

12H	4H	23.9	24.7	24.4	25.2	25.8	26.3	27.1	26.8	27.6	28.2
	6H	24.5	25.1	25.0	25.6	26.2	27.4	28.1	28.0	28.6	29.2
	8H	24.7	25.3	25.2	25.8	26.4	28.1	28.6	28.6	29.2	29.8

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 1871.215 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.)