



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL25 UV FR 940 @450MA.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 8 SEL25 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-25-UV-PS450-54-VDIM-LP2 LED driver set at 450mA

[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	3433
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	22
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)	7.67 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	6727	5986	5803
55	5860	5289	5140
65	4721	4443	4312
75	3467	3556	3379
85	2104	2888	2562

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	420.93	N.A.	12.30
0-30	895.04	N.A.	26.10
0-40	1465.41	N.A.	42.70
0-60	2568.36	N.A.	74.80
0-80	3199.91	N.A.	93.20
0-90	3323.00	N.A.	96.80
10-90	3214.27	N.A.	93.60
20-40	1044.48	N.A.	30.40
20-50	1629.85	N.A.	47.50
40-70	1491.95	N.A.	43.50
60-80	631.54	N.A.	18.40
70-80	242.54	N.A.	7.10
80-90	123.10	N.A.	3.60
90-110	82.69	N.A.	2.40
90-120	96.53	N.A.	2.80
90-130	103.85	N.A.	3.00
90-150	109.34	N.A.	3.20
90-180	110.30	N.A.	3.20
110-180	27.61	N.A.	0.80
0-180	3433.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	108.73
10-20	312.20
20-30	474.12
30-40	570.37
40-50	585.37
50-60	517.59
60-70	389.00
70-80	242.54
80-90	123.10
90-100	55.81
100-110	26.88
110-120	13.84
120-130	7.32
130-140	3.74
140-150	1.74
150-160	0.75
160-170	0.21
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	95	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	16.4	18.0	16.8	18.4	18.8	18.5	20.1	18.9	20.4	20.8
	3H	17.6	19.1	18.1	19.5	19.9	20.5	21.9	20.9	22.3	22.7
	4H	18.0	19.3	18.4	19.7	20.2	21.3	22.7	21.8	23.1	23.5
	6H	18.2	19.4	18.6	19.9	20.3	22.1	23.4	22.6	23.8	24.3
	8H	18.2	19.4	18.7	19.9	20.3	22.5	23.7	22.9	24.1	24.6
	12H	18.2	19.4	18.7	19.8	20.3	22.9	24.0	23.4	24.5	25.0

### UGR Viewed Endwise

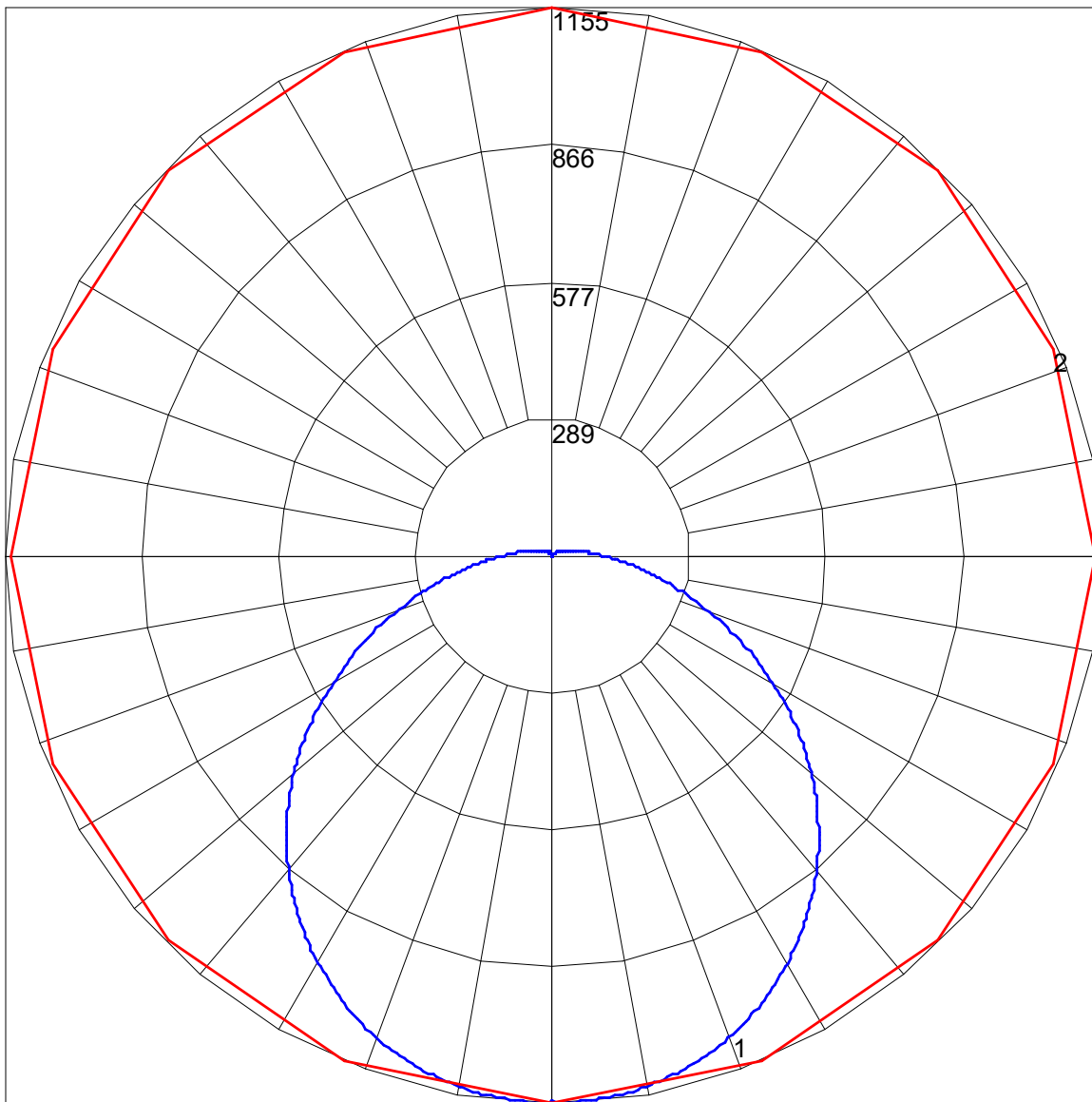
4H	2H	17.3	18.6	17.7	19.0	19.5	18.9	20.2	19.3	20.6	21.1
	3H	18.7	19.9	19.2	20.3	20.8	21.1	22.2	21.5	22.7	23.2
	4H	19.2	20.2	19.7	20.7	21.2	22.1	23.1	22.6	23.6	24.1
	6H	19.5	20.4	20.0	20.9	21.4	23.0	24.0	23.5	24.5	25.0
	8H	19.5	20.4	20.0	20.9	21.4	23.5	24.4	24.0	24.9	25.4
	12H	19.6	20.4	20.1	20.9	21.4	24.0	24.8	24.5	25.3	25.9

8H	4H	19.7	20.6	20.2	21.1	21.6	22.3	23.1	22.8	23.6	24.2
	6H	20.2	20.9	20.7	21.5	22.0	23.4	24.1	23.9	24.6	25.2
	8H	20.3	21.0	20.9	21.5	22.1	23.9	24.6	24.5	25.2	25.7
	12H	20.4	21.0	21.0	21.5	22.2	24.6	25.2	25.1	25.7	26.3

12H	4H	19.8	20.6	20.4	21.2	21.7	22.3	23.0	22.8	23.6	24.1
	6H	20.4	21.0	20.9	21.6	22.2	23.4	24.1	24.0	24.6	25.2
	8H	20.6	21.2	21.2	21.7	22.4	24.0	24.6	24.6	25.2	25.8

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 1154.701 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.)