



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL100 UV FR 940 @1800MA.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 SEL100 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-100-UV-PS1800-54-VDIM-LM2 LED driver set at 1800mA

[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	13476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	90.2
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	26405	23495	22778
55	23003	20761	20174
65	18530	17439	16927
75	13609	13957	13263
85	8257	11338	10055

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : ECL N G2 8 SEL100 UV FR 940 @1800MA.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1652.22	N.A.	12.30
0-30	3513.22	N.A.	26.10
0-40	5752.02	N.A.	42.70
0-60	10081.32	N.A.	74.80
0-80	12560.25	N.A.	93.20
0-90	13043.43	N.A.	96.80
10-90	12616.64	N.A.	93.60
20-40	4099.8	N.A.	30.40
20-50	6397.48	N.A.	47.50
40-70	5856.21	N.A.	43.50
60-80	2478.93	N.A.	18.40
70-80	952.02	N.A.	7.10
80-90	483.18	N.A.	3.60
90-110	324.59	N.A.	2.40
90-120	378.90	N.A.	2.80
90-130	407.62	N.A.	3.00
90-150	429.17	N.A.	3.20
90-180	432.94	N.A.	3.20
110-180	108.36	N.A.	0.80
0-180	13476.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	426.79
10-20	1225.43
20-30	1861.01
30-40	2238.79
40-50	2297.67
50-60	2031.63
60-70	1526.91
70-80	952.02
80-90	483.18
90-100	219.08
100-110	105.51
110-120	54.31
120-130	28.72
130-140	14.70
140-150	6.85
150-160	2.93
160-170	0.84
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	21.1	22.7	21.5	23.1	23.5	23.2	24.8	23.6	25.1	25.5
	3H	22.3	23.8	22.8	24.2	24.6	25.2	26.6	25.6	27.0	27.4
	4H	22.7	24.0	23.1	24.4	24.9	26.0	27.4	26.5	27.8	28.2
	6H	22.9	24.1	23.3	24.6	25.0	26.8	28.1	27.3	28.5	29.0
	8H	22.9	24.1	23.4	24.6	25.0	27.2	28.4	27.7	28.8	29.3
	12H	22.9	24.1	23.4	24.5	25.0	27.6	28.7	28.1	29.2	29.7

### UGR Viewed Endwise

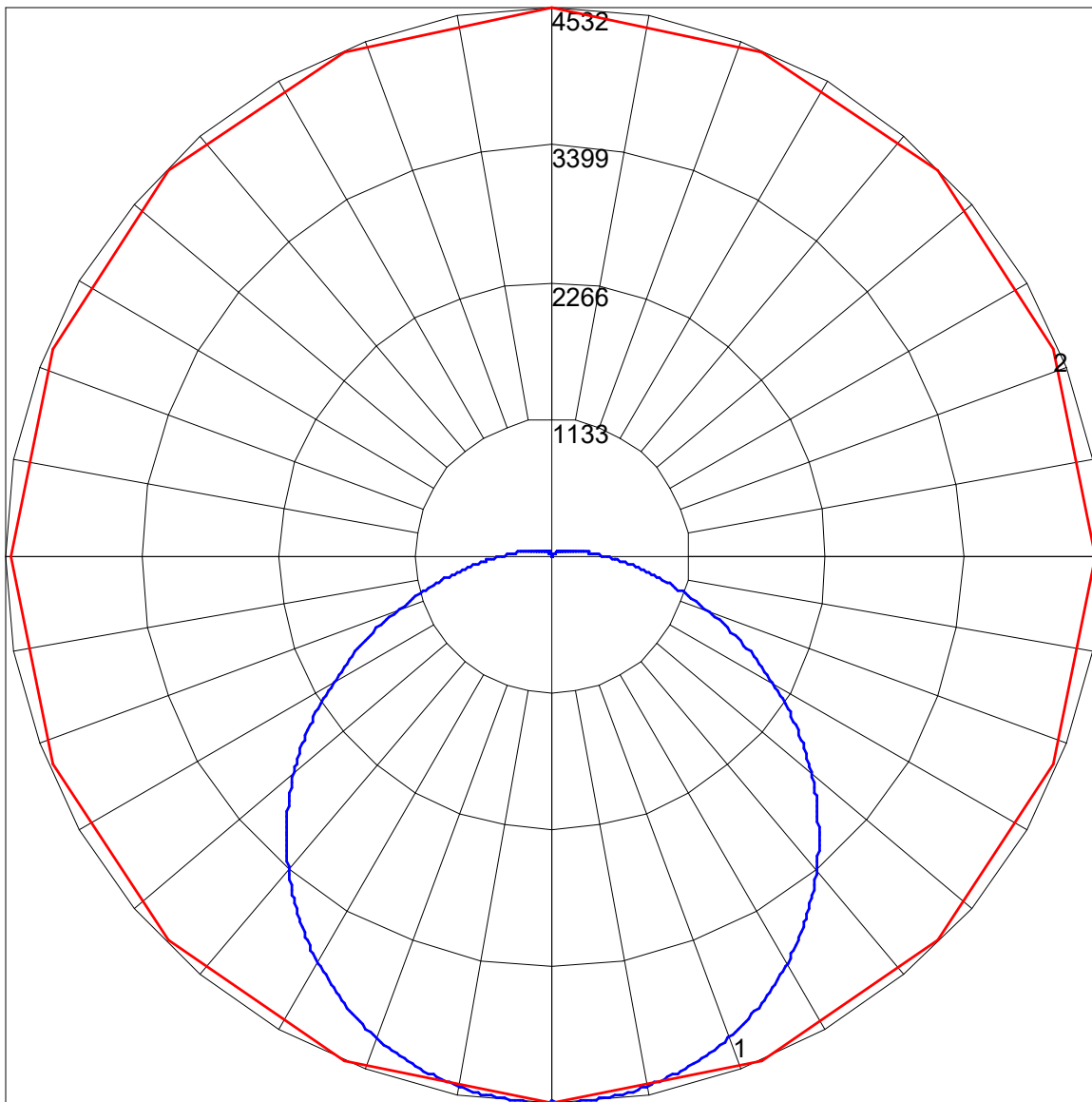
4H	2H	22.0	23.3	22.4	23.7	24.2	23.6	24.9	24.0	25.4	25.8
	3H	23.4	24.6	23.9	25.0	25.5	25.8	26.9	26.2	27.4	27.9
	4H	23.9	24.9	24.4	25.4	25.9	26.8	27.8	27.3	28.3	28.8
	6H	24.2	25.1	24.7	25.6	26.1	27.7	28.7	28.2	29.2	29.7
	8H	24.2	25.1	24.7	25.6	26.1	28.2	29.1	28.7	29.6	30.1
	12H	24.3	25.1	24.8	25.6	26.1	28.7	29.5	29.2	30.0	30.6

8H	4H	24.4	25.3	24.9	25.8	26.3	27.0	27.8	27.5	28.3	28.9
	6H	24.9	25.6	25.4	26.2	26.7	28.1	28.8	28.6	29.3	29.9
	8H	25.0	25.7	25.6	26.2	26.8	28.6	29.3	29.2	29.9	30.4
	12H	25.1	25.7	25.7	26.2	26.9	29.3	29.9	29.8	30.4	31.0

12H	4H	24.5	25.3	25.1	25.9	26.4	27.0	27.7	27.5	28.3	28.8
	6H	25.1	25.7	25.6	26.3	26.9	28.1	28.8	28.7	29.3	29.9
	8H	25.3	25.9	25.9	26.4	27.1	28.7	29.3	29.3	29.9	30.5

Maximum UGR = 31.0

POLAR GRAPH



Maximum Candela = 4532.427 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.)