



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 6 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 6 SEL25 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Three LS3872A 28 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	3025
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	19.7
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)	5.84 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	7755	6908	6707
55	6749	6101	5940
65	5427	5121	4984
75	3970	4094	3905
85	2368	3319	2961

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	370.82	N.A.	12.30
0-30	788.50	N.A.	26.10
0-40	1290.97	N.A.	42.70
0-60	2262.63	N.A.	74.80
0-80	2819.00	N.A.	93.20
0-90	2927.44	N.A.	96.80
10-90	2831.65	N.A.	93.60
20-40	920.15	N.A.	30.40
20-50	1435.84	N.A.	47.50
40-70	1314.36	N.A.	43.50
60-80	556.37	N.A.	18.40
70-80	213.67	N.A.	7.10
80-90	108.44	N.A.	3.60
90-110	72.85	N.A.	2.40
90-120	85.04	N.A.	2.80
90-130	91.49	N.A.	3.00
90-150	96.32	N.A.	3.20
90-180	97.17	N.A.	3.20
110-180	24.32	N.A.	0.80
0-180	3024.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.79
10-20	275.03
20-30	417.68
30-40	502.47
40-50	515.69
50-60	455.97
60-70	342.70
70-80	213.67
80-90	108.44
90-100	49.17
100-110	23.68
110-120	12.19
120-130	6.45
130-140	3.30
140-150	1.54
150-160	0.66
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

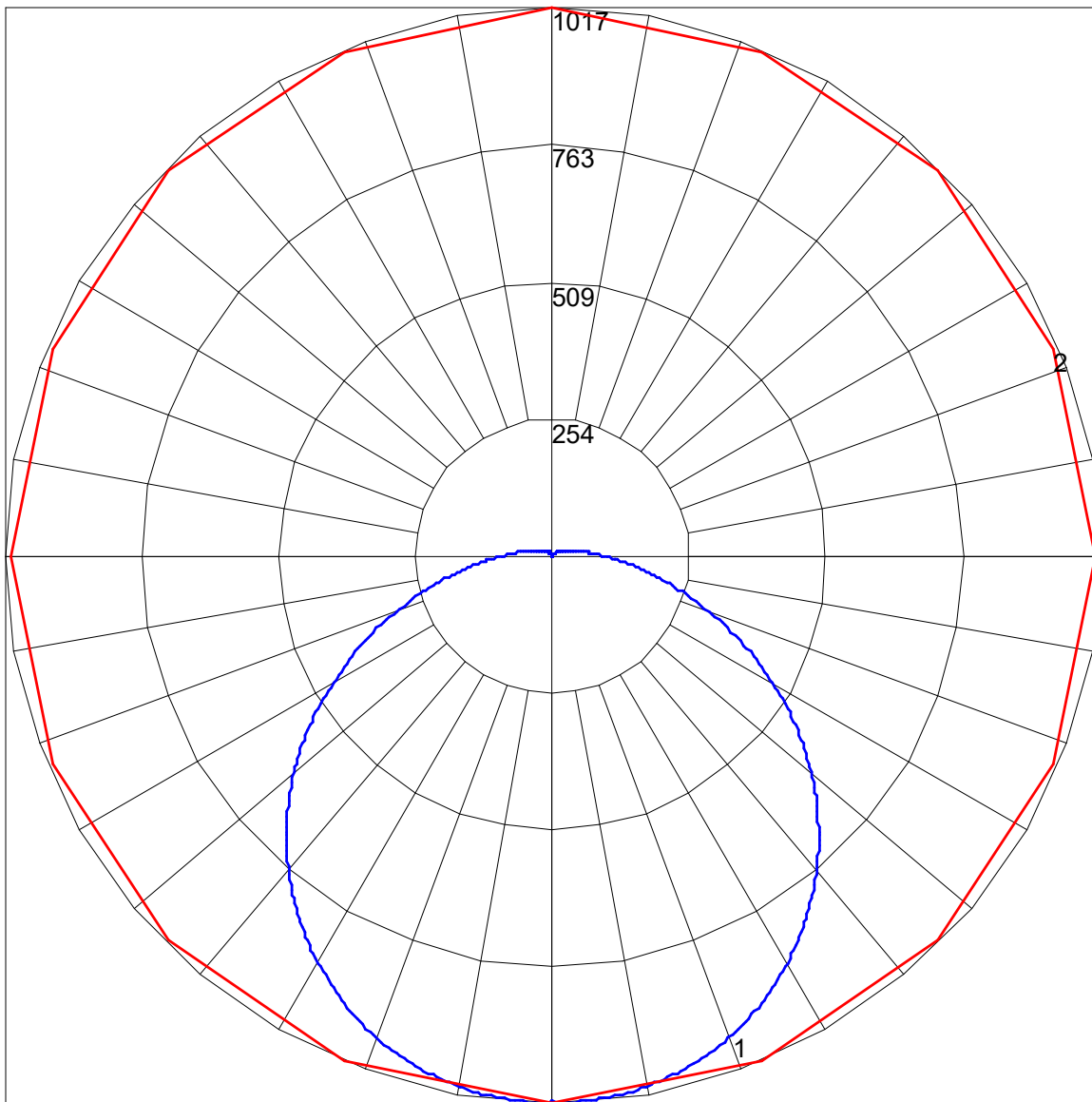
X=2H	Y=2H	17.0	18.5	17.4	18.9	19.3	19.0	20.6	19.4	21.0	21.4
	3H	18.2	19.6	18.6	20.0	20.4	21.0	22.4	21.4	22.8	23.2
	4H	18.5	19.9	19.0	20.3	20.7	21.8	23.2	22.3	23.6	24.0
	6H	18.7	20.0	19.2	20.4	20.9	22.6	23.9	23.1	24.3	24.8
	8H	18.7	20.0	19.2	20.4	20.9	23.0	24.2	23.5	24.7	25.1
	12H	18.8	19.9	19.2	20.4	20.9	23.4	24.6	23.9	25.0	25.5

### UGR Viewed Endwise

4H	2H	17.8	19.2	18.3	19.6	20.0	19.4	20.8	19.9	21.2	21.6
	3H	19.2	20.4	19.7	20.8	21.3	21.6	22.8	22.1	23.2	23.7
	4H	19.7	20.8	20.2	21.2	21.7	22.6	23.6	23.1	24.1	24.6
	6H	20.0	20.9	20.5	21.4	22.0	23.6	24.5	24.1	25.0	25.5
	8H	20.1	20.9	20.6	21.4	22.0	24.0	24.9	24.5	25.4	25.9
	12H	20.1	20.9	20.6	21.4	22.0	24.5	25.3	25.0	25.8	26.4
8H	4H	20.3	21.1	20.8	21.6	22.2	22.8	23.7	23.3	24.1	24.7
	6H	20.7	21.4	21.3	22.0	22.5	23.9	24.6	24.4	25.2	25.7
	8H	20.8	21.5	21.4	22.1	22.6	24.5	25.1	25.0	25.7	26.2
	12H	21.0	21.5	21.5	22.1	22.7	25.1	25.7	25.7	26.2	26.9
12H	4H	20.4	21.2	20.9	21.7	22.2	22.8	23.6	23.3	24.1	24.6
	6H	20.9	21.6	21.5	22.1	22.7	23.9	24.6	24.5	25.1	25.7
	8H	21.1	21.7	21.7	22.3	22.9	24.6	25.1	25.1	25.7	26.3

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 1017.248 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.)