

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL75 UV FR 940 @1100MA.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 SEL75 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 64 LED boards, 4000K

[BALLAST] One KTLD-75-UV-PS1400-54-VDIM-LM2 LED driver set at 1100mA

[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	8302
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	54.8
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	32184	28733	27989
55	27942	25351	24788
65	22383	21249	20799
75	16241	16949	16296
85	9348	13674	12354

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1017.85	N.A.	12.30
0-30	2164.32	N.A.	26.10
0-40	3543.54	N.A.	42.70
0-60	6210.61	N.A.	74.80
0-80	7737.75	N.A.	93.20
0-90	8035.42	N.A.	96.80
10-90	7772.5	N.A.	93.60
20-40	2525.69	N.A.	30.40
20-50	3941.17	N.A.	47.50
40-70	3607.72	N.A.	43.50
60-80	1527.15	N.A.	18.40
70-80	586.49	N.A.	7.10
80-90	297.66	N.A.	3.60
90-110	199.96	N.A.	2.40
90-120	233.42	N.A.	2.80
90-130	251.12	N.A.	3.00
90-150	264.39	N.A.	3.20
90-180	266.72	N.A.	3.20
110-180	66.75	N.A.	0.80
0-180	8302.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	262.92
10-20	754.93
20-30	1146.48
30-40	1379.21
40-50	1415.48
50-60	1251.59
60-70	940.65
70-80	586.49
80-90	297.66
90-100	134.96
100-110	65.00
110-120	33.46
120-130	17.69
130-140	9.05
140-150	4.22
150-160	1.81
160-170	0.52
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	21.9	23.5	22.3	23.9	24.3	23.9	25.5	24.3	25.9	26.3
	3H	23.1	24.6	23.6	24.9	25.4	25.9	27.3	26.3	27.7	28.2
	4H	23.5	24.8	23.9	25.2	25.7	26.8	28.1	27.2	28.5	29.0
	6H	23.7	24.9	24.1	25.4	25.8	27.5	28.8	28.0	29.2	29.7
	8H	23.7	24.9	24.2	25.4	25.8	27.9	29.1	28.4	29.6	30.0
	12H	23.7	24.9	24.2	25.3	25.8	28.3	29.5	28.8	29.9	30.4

### UGR Viewed Endwise

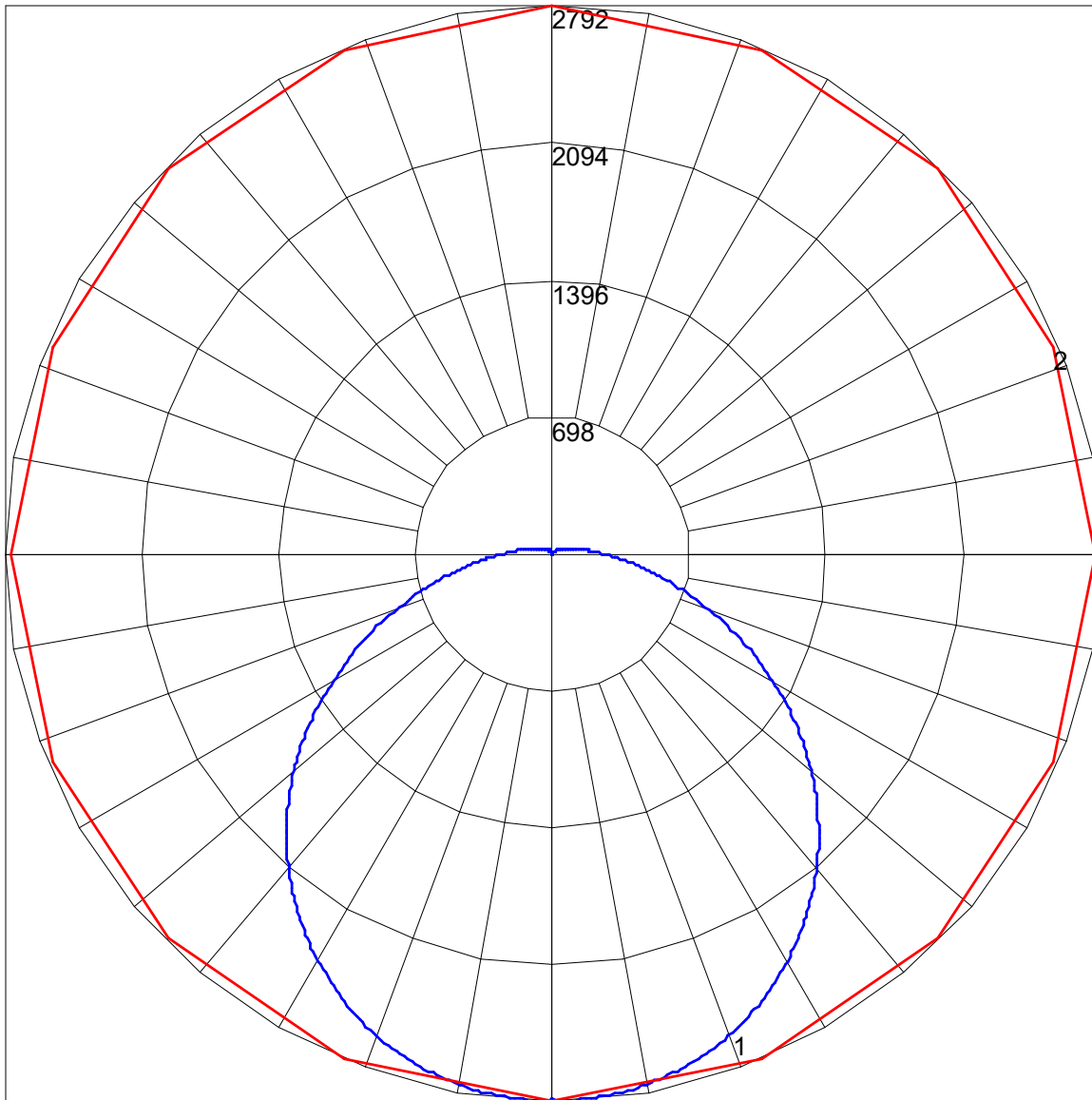
4H	2H	22.8	24.1	23.2	24.5	25.0	24.4	25.7	24.8	26.1	26.6
	3H	24.2	25.3	24.6	25.8	26.3	26.5	27.7	27.0	28.1	28.6
	4H	24.7	25.7	25.1	26.2	26.7	27.5	28.6	28.0	29.0	29.5
	6H	25.0	25.9	25.5	26.4	26.9	28.5	29.4	29.0	29.9	30.4
	8H	25.0	25.9	25.5	26.4	26.9	28.9	29.8	29.4	30.3	30.8
	12H	25.1	25.8	25.6	26.4	26.9	29.4	30.2	29.9	30.7	31.3

8H	4H	25.2	26.1	25.7	26.6	27.1	27.7	28.6	28.2	29.1	29.6
	6H	25.7	26.4	26.2	26.9	27.5	28.8	29.5	29.3	30.1	30.6
	8H	25.8	26.5	26.3	27.0	27.6	29.4	30.0	29.9	30.6	31.1
	12H	25.9	26.5	26.4	27.0	27.6	30.0	30.6	30.5	31.1	31.7

12H	4H	25.3	26.1	25.8	26.6	27.2	27.7	28.5	28.2	29.0	29.6
	6H	25.9	26.5	26.4	27.0	27.6	28.8	29.5	29.4	30.0	30.6
	8H	26.1	26.7	26.6	27.2	27.8	29.5	30.0	30.0	30.6	31.2

Maximum UGR = 31.7

POLAR GRAPH



Maximum Candela = 2792.206 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.)