



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 6 SEL75 UV FR 940 @1400MA.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 SEL75 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Three LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-75-UV-PS1400-54-VDIM-LM2 LED driver set at 1400mA

[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	10440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	70.3
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	26768	23842	23150
55	23294	21058	20503
65	18731	17677	17203
75	13703	14132	13479
85	8173	11455	10219

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1279.9	N.A.	12.30
0-30	2721.55	N.A.	26.10
0-40	4455.85	N.A.	42.70
0-60	7809.58	N.A.	74.80
0-80	9729.9	N.A.	93.20
0-90	10104.2	N.A.	96.80
10-90	9773.59	N.A.	93.60
20-40	3175.95	N.A.	30.40
20-50	4955.86	N.A.	47.50
40-70	4536.56	N.A.	43.50
60-80	1920.32	N.A.	18.40
70-80	737.49	N.A.	7.10
80-90	374.30	N.A.	3.60
90-110	251.44	N.A.	2.40
90-120	293.52	N.A.	2.80
90-130	315.77	N.A.	3.00
90-150	332.46	N.A.	3.20
90-180	335.38	N.A.	3.20
110-180	83.94	N.A.	0.80
0-180	10439.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	330.61
10-20	949.29
20-30	1441.65
30-40	1734.3
40-50	1779.91
50-60	1573.82
60-70	1182.83
70-80	737.49
80-90	374.30
90-100	169.71
100-110	81.74
110-120	42.07
120-130	22.25
130-140	11.39
140-150	5.30
150-160	2.27
160-170	0.65
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	21.3	22.8	21.7	23.2	23.6	23.3	24.9	23.7	25.3	25.7
	3H	22.5	23.9	22.9	24.3	24.7	25.3	26.7	25.7	27.1	27.5
	4H	22.8	24.2	23.3	24.6	25.0	26.1	27.5	26.6	27.9	28.3
	6H	23.0	24.3	23.5	24.7	25.2	26.9	28.2	27.4	28.6	29.1
	8H	23.0	24.3	23.5	24.7	25.2	27.3	28.5	27.8	29.0	29.4
	12H	23.1	24.2	23.5	24.7	25.2	27.7	28.9	28.2	29.3	29.8

UGR Viewed Endwise

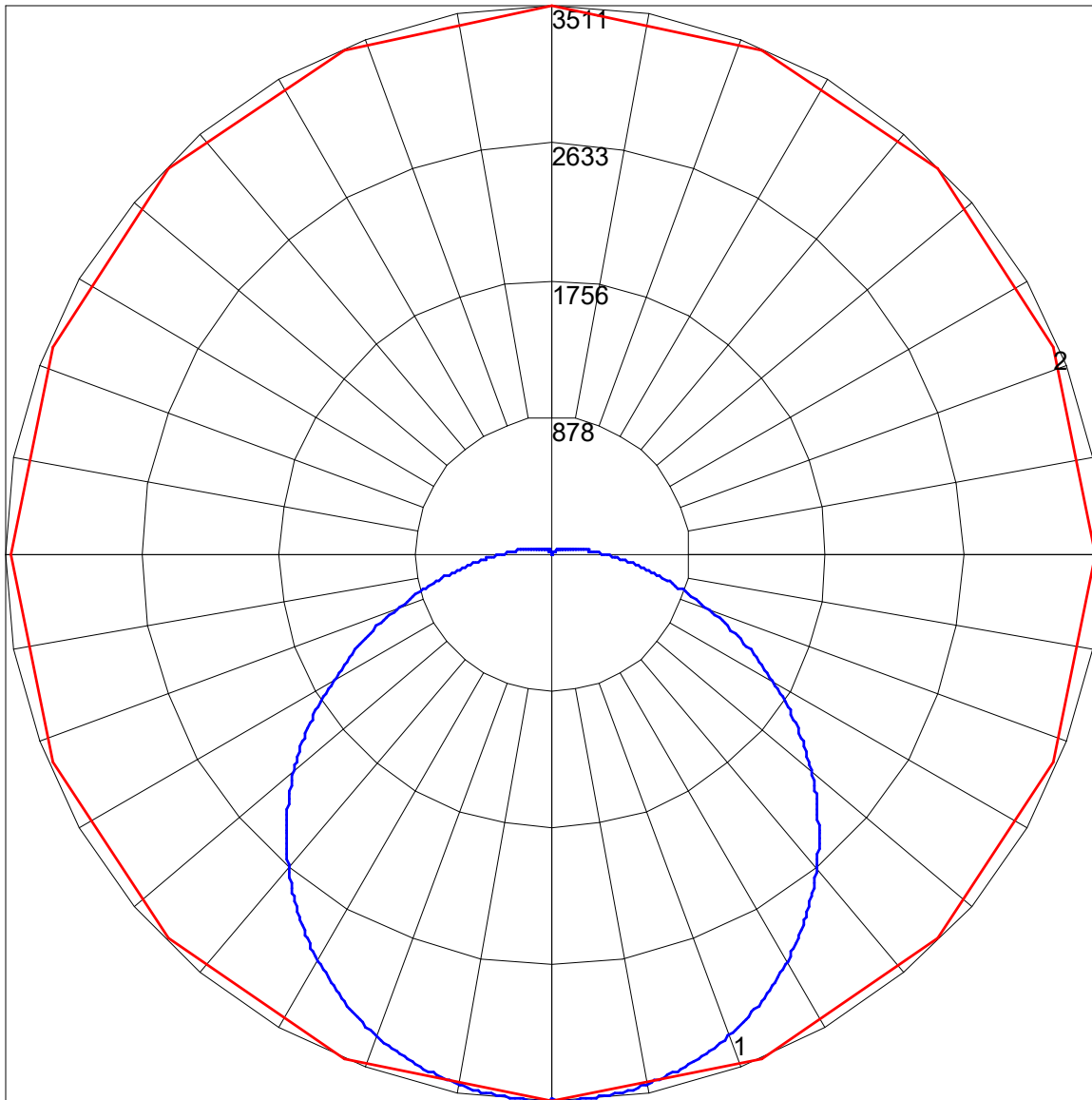
4H	2H	22.1	23.5	22.6	23.9	24.3	23.7	25.1	24.2	25.5	25.9
	3H	23.5	24.7	24.0	25.1	25.6	25.9	27.1	26.4	27.5	28.0
	4H	24.0	25.1	24.5	25.5	26.0	26.9	27.9	27.4	28.4	28.9
	6H	24.3	25.2	24.8	25.7	26.3	27.9	28.8	28.4	29.3	29.8
	8H	24.4	25.2	24.9	25.7	26.3	28.3	29.2	28.8	29.7	30.2
	12H	24.4	25.2	24.9	25.7	26.3	28.8	29.6	29.3	30.1	30.7

8H	4H	24.6	25.4	25.1	25.9	26.5	27.1	28.0	27.6	28.4	29.0
	6H	25.0	25.7	25.6	26.3	26.8	28.2	28.9	28.7	29.5	30.0
	8H	25.2	25.8	25.7	26.4	26.9	28.8	29.4	29.3	30.0	30.5
	12H	25.3	25.8	25.8	26.4	27.0	29.4	30.0	30.0	30.5	31.2

12H	4H	24.7	25.5	25.2	26.0	26.5	27.1	27.9	27.6	28.4	28.9
	6H	25.2	25.9	25.8	26.4	27.0	28.2	28.9	28.8	29.4	30.0
	8H	25.4	26.0	26.0	26.6	27.2	28.9	29.4	29.4	30.0	30.6

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 3511.082 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.)