

IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 SEL25 UV FR 940 @450MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 2 SEL25 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] One LS3872A 48 LED board, 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	3360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	23.3
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)	1.99 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	24255	22163	21876
55	20772	19413	19380
65	16466	16216	16437
75	11820	13002	13141
85	6531	10545	10356

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	410.83	N.A.	12.20
0-30	874.06	N.A.	26.00
0-40	1430.51	N.A.	42.60
0-60	2500.23	N.A.	74.40
0-80	3117.21	N.A.	92.80
0-90	3241.66	N.A.	96.50
10-90	3135.6	N.A.	93.30
20-40	1019.68	N.A.	30.30
20-50	1588.32	N.A.	47.30
40-70	1447.56	N.A.	43.10
60-80	616.98	N.A.	18.40
70-80	239.14	N.A.	7.10
80-90	124.45	N.A.	3.70
90-110	86.07	N.A.	2.60
90-120	100.93	N.A.	3.00
90-130	109.10	N.A.	3.20
90-150	116.42	N.A.	3.50
90-180	118.47	N.A.	3.50
110-180	32.40	N.A.	1.00
0-180	3360.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.06
10-20	304.77
20-30	463.23
30-40	556.44
40-50	568.64
50-60	501.08
60-70	377.84
70-80	239.14
80-90	124.45
90-100	57.82
100-110	28.24
110-120	14.87
120-130	8.17
130-140	4.66
140-150	2.65
150-160	1.47
160-170	0.53
170-180	0.06

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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	96
1	107	102	98	93	104	99	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	42	35	62	49	41	35	47	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	43	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	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	20.8	22.3	21.2	22.7	23.2	22.9	24.5	23.3	24.9	25.3
	3H	22.0	23.4	22.4	23.8	24.3	24.9	26.3	25.3	26.7	27.2
	4H	22.3	23.7	22.8	24.1	24.6	25.8	27.1	26.2	27.5	28.0
	6H	22.5	23.8	23.0	24.2	24.7	26.6	27.8	27.1	28.3	28.8
	8H	22.6	23.8	23.1	24.2	24.7	27.0	28.1	27.5	28.6	29.1
	12H	22.6	23.7	23.1	24.2	24.7	27.4	28.5	27.9	29.0	29.5

UGR Viewed Endwise

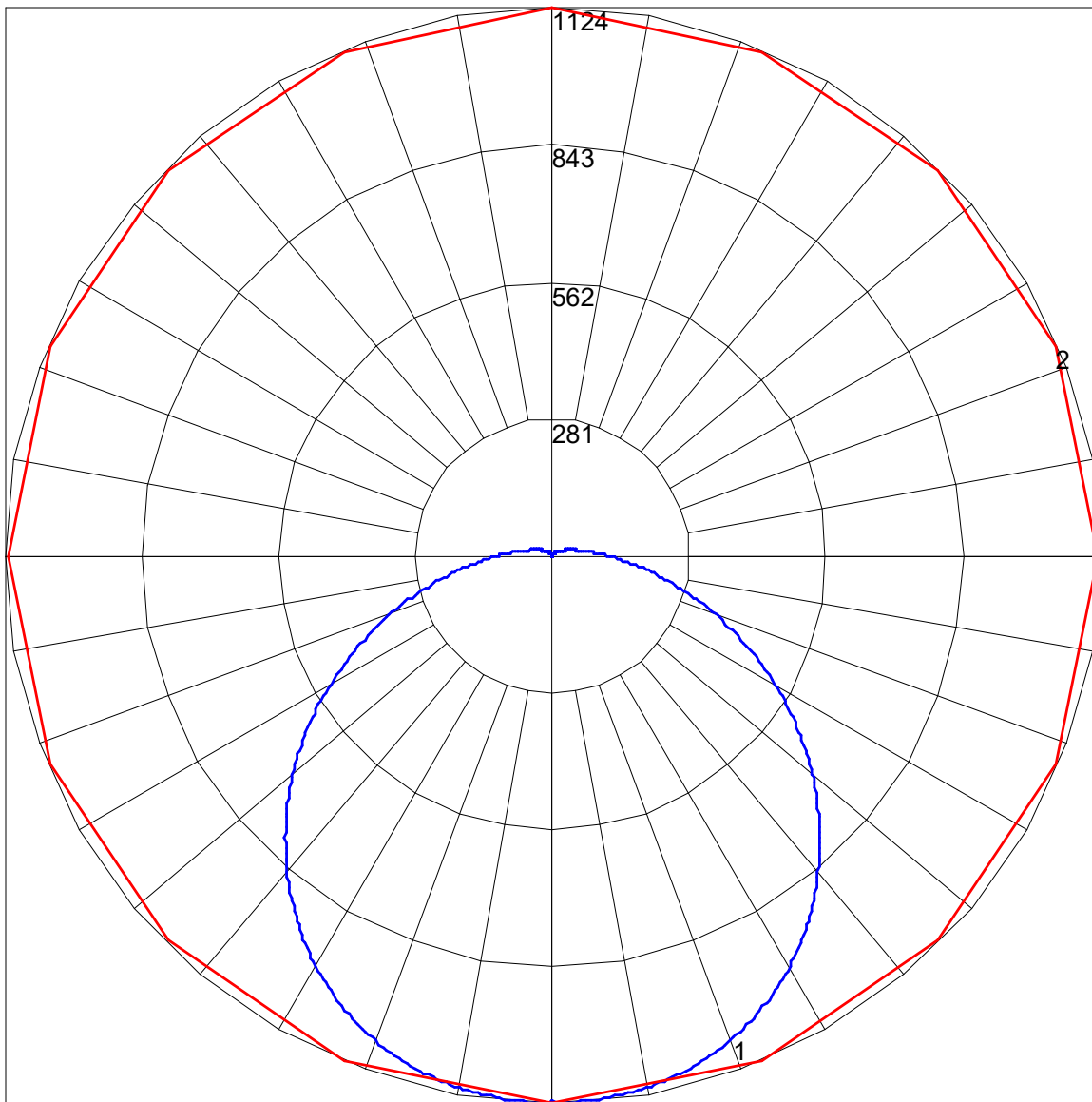
4H	2H	21.6	23.0	22.1	23.4	23.9	23.3	24.7	23.8	25.1	25.6
	3H	23.1	24.2	23.6	24.7	25.2	25.5	26.7	26.0	27.1	27.6
	4H	23.6	24.6	24.1	25.1	25.6	26.6	27.6	27.0	28.1	28.6
	6H	23.9	24.8	24.4	25.3	25.8	27.5	28.4	28.1	28.9	29.5
	8H	23.9	24.8	24.5	25.3	25.8	28.0	28.8	28.5	29.4	29.9
	12H	24.0	24.7	24.5	25.3	25.8	28.5	29.3	29.0	29.8	30.4

8H	4H	24.1	25.0	24.6	25.5	26.0	26.7	27.6	27.3	28.1	28.6
	6H	24.6	25.3	25.1	25.8	26.4	27.9	28.6	28.4	29.1	29.7
	8H	24.7	25.4	25.3	25.9	26.5	28.4	29.1	29.0	29.7	30.2
	12H	24.8	25.4	25.4	25.9	26.6	29.1	29.7	29.7	30.2	30.9

12H	4H	24.2	25.0	24.8	25.5	26.1	26.7	27.5	27.3	28.0	28.6
	6H	24.8	25.4	25.4	26.0	26.6	27.9	28.5	28.5	29.1	29.7
	8H	25.0	25.6	25.6	26.1	26.8	28.5	29.1	29.1	29.7	30.3

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 1124.036 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.)