



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL35 UV FR 940 @650MA.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 SEL35 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-35-UV-PS650-54-VDIM-LM1 LED driver set at 650mA

[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	4969
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	31.9
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	19261	17195	16750
55	16722	15171	14835
65	13395	12717	12447
75	9720	10143	9753
85	5594	8183	7394

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	609.14	N.A.	12.30
0-30	1295.27	N.A.	26.10
0-40	2120.67	N.A.	42.70
0-60	3716.81	N.A.	74.80
0-80	4630.75	N.A.	93.20
0-90	4808.89	N.A.	96.80
10-90	4651.54	N.A.	93.60
20-40	1511.53	N.A.	30.40
20-50	2358.64	N.A.	47.50
40-70	2159.09	N.A.	43.50
60-80	913.94	N.A.	18.40
70-80	350.99	N.A.	7.10
80-90	178.14	N.A.	3.60
90-110	119.67	N.A.	2.40
90-120	139.69	N.A.	2.80
90-130	150.28	N.A.	3.00
90-150	158.23	N.A.	3.20
90-180	159.62	N.A.	3.20
110-180	39.95	N.A.	0.80
0-180	4968.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.35
10-20	451.79
20-30	686.12
30-40	825.41
40-50	847.11
50-60	749.03
60-70	562.94
70-80	350.99
80-90	178.14
90-100	80.77
100-110	38.90
110-120	20.02
120-130	10.59
130-140	5.42
140-150	2.52
150-160	1.08
160-170	0.31
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	20.1	21.7	20.5	22.1	22.5	22.1	23.7	22.5	24.1	24.5
	3H	21.3	22.8	21.8	23.1	23.6	24.1	25.5	24.5	25.9	26.4
	4H	21.7	23.0	22.1	23.4	23.9	25.0	26.3	25.4	26.7	27.2
	6H	21.9	23.1	22.3	23.6	24.0	25.7	27.0	26.2	27.4	27.9
	8H	21.9	23.1	22.4	23.6	24.0	26.1	27.3	26.6	27.8	28.2
	12H	21.9	23.1	22.4	23.5	24.0	26.5	27.7	27.0	28.1	28.6

UGR Viewed Endwise

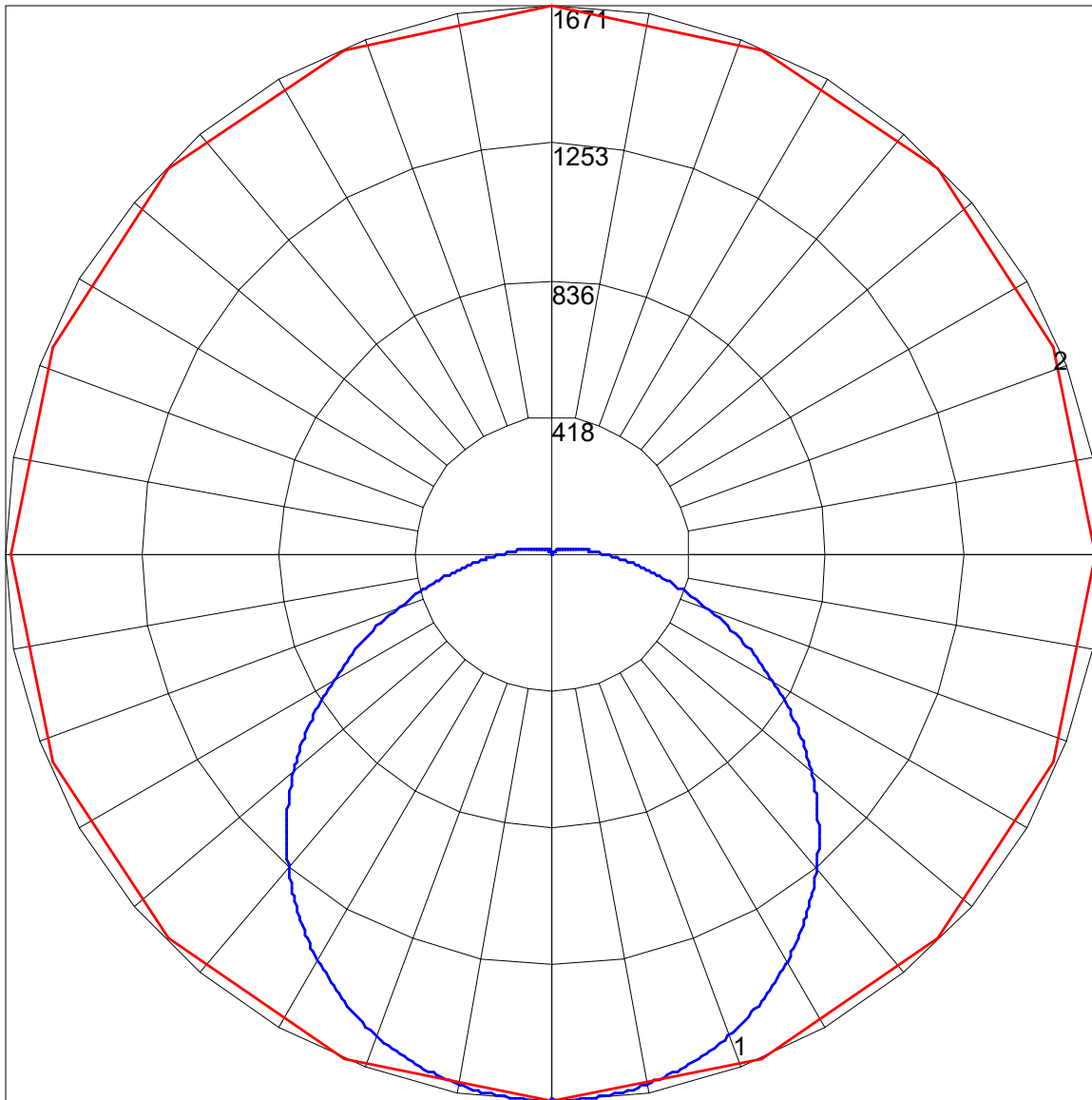
4H	2H	21.0	22.3	21.4	22.7	23.2	22.6	23.9	23.0	24.3	24.8
	3H	22.4	23.5	22.8	24.0	24.5	24.7	25.9	25.2	26.3	26.8
	4H	22.9	23.9	23.3	24.4	24.9	25.7	26.8	26.2	27.2	27.7
	6H	23.2	24.1	23.7	24.6	25.1	26.7	27.6	27.2	28.1	28.6
	8H	23.2	24.1	23.7	24.6	25.1	27.1	28.0	27.6	28.5	29.0
	12H	23.3	24.0	23.8	24.6	25.1	27.6	28.4	28.1	28.9	29.5

8H	4H	23.4	24.3	23.9	24.8	25.3	25.9	26.8	26.4	27.3	27.8
	6H	23.9	24.6	24.4	25.1	25.7	27.0	27.7	27.5	28.3	28.8
	8H	24.0	24.7	24.5	25.2	25.8	27.6	28.2	28.1	28.8	29.3
	12H	24.1	24.7	24.6	25.2	25.8	28.2	28.8	28.7	29.3	29.9

12H	4H	23.5	24.3	24.0	24.8	25.4	25.9	26.7	26.4	27.2	27.8
	6H	24.1	24.7	24.6	25.2	25.8	27.0	27.7	27.6	28.2	28.8
	8H	24.3	24.9	24.8	25.4	26.0	27.7	28.2	28.2	28.8	29.4

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1671.029 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.)