



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL15 UV FR 940 @300MA.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 SEL15 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 28 LED boards, 4000K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set at 300mA

[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	2016
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	13.6
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	7816	6978	6797
55	6786	6157	6020
65	5436	5160	5051
75	3944	4116	3958
85	2270	3321	3000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	247.19	N.A.	12.30
0-30	525.61	N.A.	26.10
0-40	860.56	N.A.	42.70
0-60	1508.27	N.A.	74.80
0-80	1879.14	N.A.	93.20
0-90	1951.43	N.A.	96.80
10-90	1887.58	N.A.	93.60
20-40	613.37	N.A.	30.40
20-50	957.13	N.A.	47.50
40-70	876.15	N.A.	43.50
60-80	370.87	N.A.	18.40
70-80	142.43	N.A.	7.10
80-90	72.29	N.A.	3.60
90-110	48.56	N.A.	2.40
90-120	56.69	N.A.	2.80
90-130	60.98	N.A.	3.00
90-150	64.21	N.A.	3.20
90-180	64.77	N.A.	3.20
110-180	16.21	N.A.	0.80
0-180	2016.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.85
10-20	183.34
20-30	278.43
30-40	334.95
40-50	343.76
50-60	303.95
60-70	228.44
70-80	142.43
80-90	72.29
90-100	32.78
100-110	15.79
110-120	8.13
120-130	4.30
130-140	2.20
140-150	1.02
150-160	0.44
160-170	0.13
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	95	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	16.9	18.5	17.3	18.9	19.3	18.9	20.5	19.3	20.9	21.3
	3H	18.1	19.6	18.6	19.9	20.4	20.9	22.3	21.3	22.7	23.2
	4H	18.5	19.8	18.9	20.2	20.7	21.8	23.1	22.2	23.5	24.0
	6H	18.7	19.9	19.1	20.4	20.8	22.5	23.8	23.0	24.2	24.7
	8H	18.7	19.9	19.2	20.4	20.8	22.9	24.1	23.4	24.6	25.0
	12H	18.7	19.9	19.2	20.3	20.8	23.3	24.4	23.8	24.9	25.4

UGR Viewed Endwise

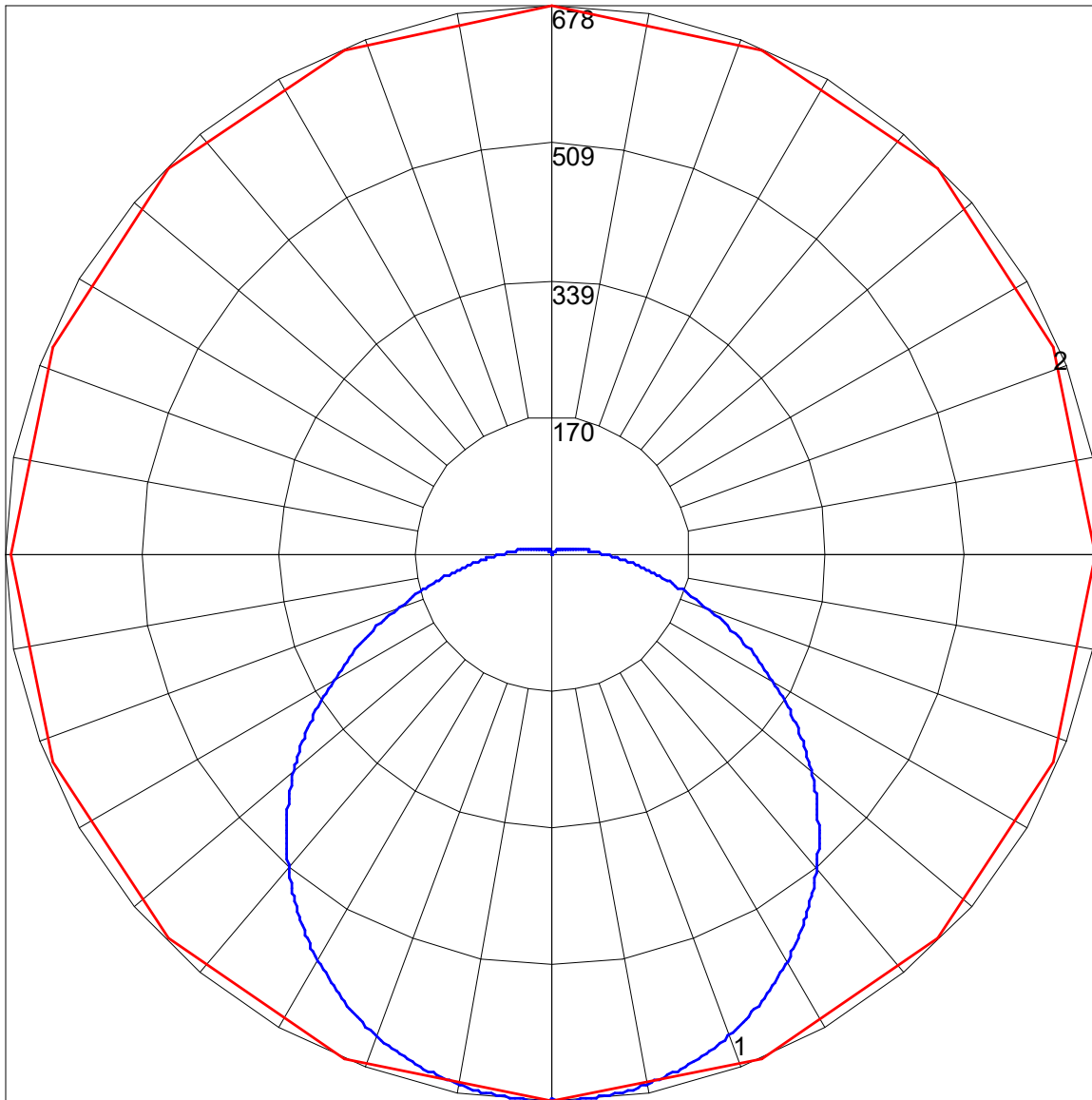
4H	2H	17.8	19.1	18.2	19.5	20.0	19.4	20.7	19.8	21.1	21.6
	3H	19.2	20.3	19.6	20.8	21.3	21.5	22.7	22.0	23.1	23.6
	4H	19.7	20.7	20.1	21.2	21.7	22.5	23.6	23.0	24.0	24.5
	6H	20.0	20.9	20.5	21.4	21.9	23.5	24.4	24.0	24.9	25.4
	8H	20.0	20.9	20.5	21.4	21.9	23.9	24.8	24.4	25.3	25.8
	12H	20.1	20.8	20.6	21.4	21.9	24.4	25.2	24.9	25.7	26.3

8H	4H	20.2	21.1	20.7	21.6	22.1	22.7	23.6	23.2	24.1	24.6
	6H	20.7	21.4	21.2	21.9	22.5	23.8	24.5	24.3	25.1	25.6
	8H	20.8	21.5	21.3	22.0	22.6	24.4	25.0	24.9	25.6	26.1
	12H	20.9	21.5	21.4	22.0	22.6	25.0	25.6	25.5	26.1	26.7

12H	4H	20.3	21.1	20.8	21.6	22.2	22.7	23.5	23.2	24.0	24.6
	6H	20.9	21.5	21.4	22.0	22.6	23.8	24.5	24.4	25.0	25.6
	8H	21.1	21.7	21.6	22.2	22.8	24.5	25.0	25.0	25.6	26.2

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 678.097 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.)