



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL25 UV FR 940 @400MA.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 8 SEL25 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-25-UV-PS450-54-VDIM-LP2 LED driver set at 400mA

[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	3047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	19.5
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)	7.67 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	5971	5313	5151
55	5201	4694	4562
65	4190	3943	3828
75	3077	3156	2999
85	1867	2564	2274

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	373.60	N.A.	12.30
0-30	794.41	N.A.	26.10
0-40	1300.64	N.A.	42.70
0-60	2279.58	N.A.	74.80
0-80	2840.11	N.A.	93.20
0-90	2949.37	N.A.	96.80
10-90	2852.87	N.A.	93.60
20-40	927.04	N.A.	30.40
20-50	1446.59	N.A.	47.50
40-70	1324.2	N.A.	43.50
60-80	560.53	N.A.	18.40
70-80	215.27	N.A.	7.10
80-90	109.26	N.A.	3.60
90-110	73.40	N.A.	2.40
90-120	85.68	N.A.	2.80
90-130	92.17	N.A.	3.00
90-150	97.04	N.A.	3.20
90-180	97.90	N.A.	3.20
110-180	24.50	N.A.	0.80
0-180	3047.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.50
10-20	277.09
20-30	420.81
30-40	506.23
40-50	519.55
50-60	459.39
60-70	345.26
70-80	215.27
80-90	109.26
90-100	49.54
100-110	23.86
110-120	12.28
120-130	6.49
130-140	3.32
140-150	1.55
150-160	0.66
160-170	0.19
170-180	0.00

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Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	16.0	17.6	16.4	18.0	18.4	18.1	19.7	18.5	20.0	20.4
	3H	17.2	18.7	17.7	19.1	19.5	20.1	21.5	20.5	21.9	22.3
	4H	17.6	18.9	18.0	19.3	19.8	20.9	22.3	21.4	22.7	23.1
	6H	17.8	19.0	18.2	19.5	19.9	21.7	23.0	22.2	23.4	23.9
	8H	17.8	19.0	18.3	19.5	19.9	22.1	23.3	22.6	23.7	24.2
	12H	17.8	19.0	18.3	19.4	19.9	22.5	23.6	23.0	24.1	24.6

UGR Viewed Endwise

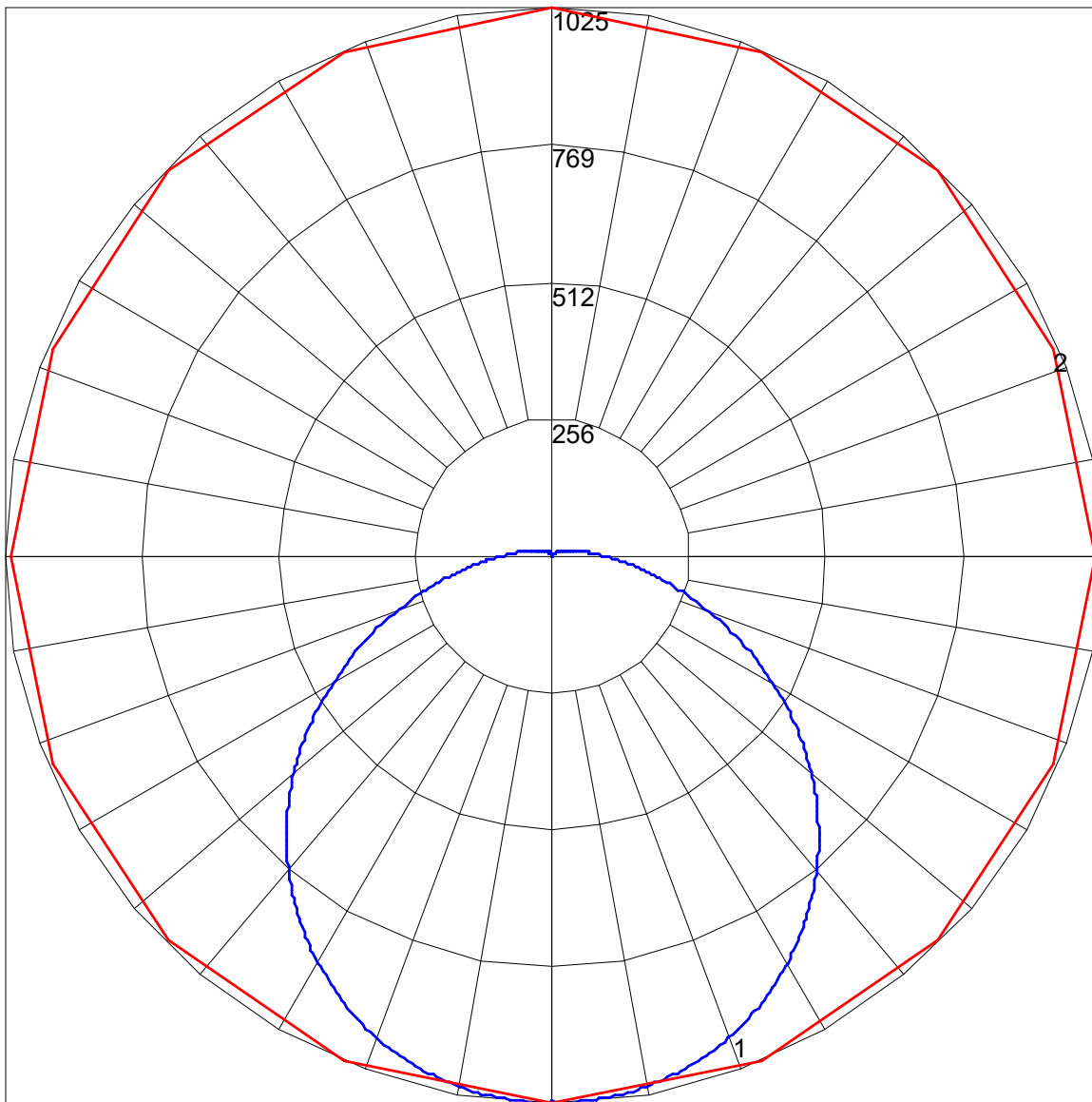
4H	2H	16.9	18.2	17.3	18.6	19.1	18.5	19.8	18.9	20.3	20.7
	3H	18.3	19.5	18.8	19.9	20.4	20.7	21.8	21.1	22.3	22.8
	4H	18.8	19.8	19.3	20.3	20.8	21.7	22.7	22.2	23.2	23.7
	6H	19.1	20.0	19.6	20.5	21.0	22.6	23.6	23.1	24.1	24.6
	8H	19.1	20.0	19.6	20.5	21.0	23.1	24.0	23.6	24.5	25.0
	12H	19.2	20.0	19.7	20.5	21.0	23.6	24.4	24.1	24.9	25.5

8H	4H	19.3	20.2	19.8	20.7	21.2	21.9	22.7	22.4	23.2	23.8
	6H	19.8	20.5	20.3	21.1	21.6	23.0	23.7	23.5	24.2	24.8
	8H	19.9	20.6	20.5	21.1	21.7	23.5	24.2	24.1	24.8	25.3
	12H	20.0	20.6	20.6	21.1	21.8	24.2	24.8	24.7	25.3	25.9

12H	4H	19.4	20.2	20.0	20.8	21.3	21.9	22.6	22.4	23.2	23.7
	6H	20.0	20.6	20.5	21.2	21.8	23.0	23.7	23.6	24.2	24.8
	8H	20.2	20.8	20.8	21.3	22.0	23.6	24.2	24.2	24.8	25.4

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 1024.869 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.)