



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL15 UV FR 940 @270MA.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 SEL15 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 28 LED boards, 4000K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set at 270mA

[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	1801
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	12
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	3528	3140	3044
55	3074	2774	2696
65	2476	2330	2262
75	1818	1865	1772
85	1103	1515	1344

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Zone	Lumens	%Lamp	%Fixt
0-20	220.78	N.A.	12.30
0-30	469.46	N.A.	26.10
0-40	768.63	N.A.	42.70
0-60	1347.14	N.A.	74.80
0-80	1678.4	N.A.	93.20
0-90	1742.96	N.A.	96.80
10-90	1685.93	N.A.	93.60
20-40	547.85	N.A.	30.40
20-50	854.88	N.A.	47.50
40-70	782.55	N.A.	43.50
60-80	331.25	N.A.	18.40
70-80	127.22	N.A.	7.10
80-90	64.57	N.A.	3.60
90-110	43.37	N.A.	2.40
90-120	50.63	N.A.	2.80
90-130	54.47	N.A.	3.00
90-150	57.35	N.A.	3.20
90-180	57.85	N.A.	3.20
110-180	14.48	N.A.	0.80
0-180	1800.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.03
10-20	163.75
20-30	248.68
30-40	299.16
40-50	307.03
50-60	271.48
60-70	204.04
70-80	127.22
80-90	64.57
90-100	29.27
100-110	14.10
110-120	7.26
120-130	3.84
130-140	1.96
140-150	0.91
150-160	0.39
160-170	0.11
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

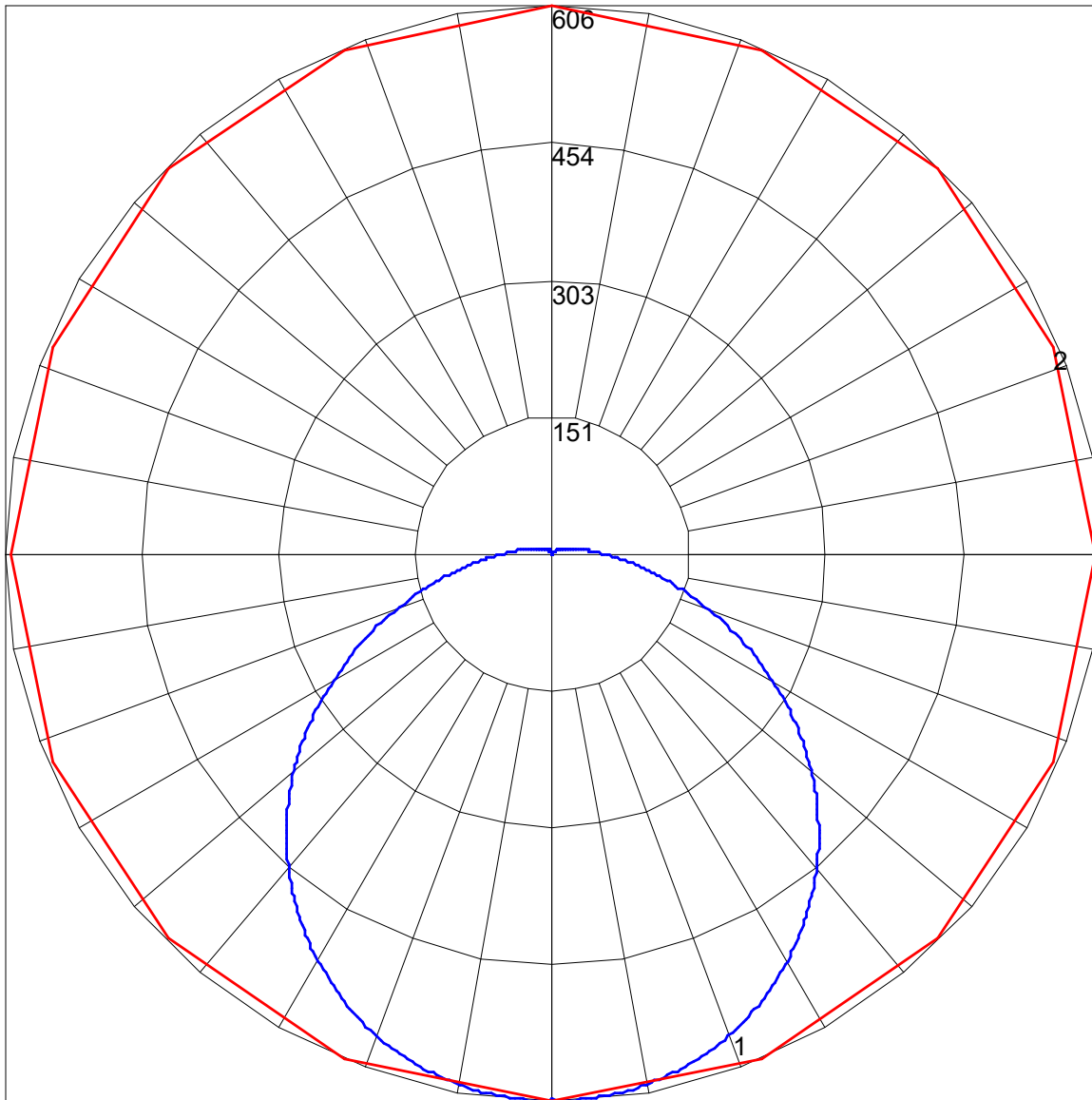
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.1	15.7	14.5	16.1	16.5	16.2	17.8	16.6	18.1	18.5
	3H	15.3	16.8	15.8	17.2	17.6	18.2	19.6	18.6	20.0	20.4
	4H	15.7	17.0	16.1	17.4	17.9	19.0	20.4	19.5	20.8	21.2
	6H	15.9	17.1	16.3	17.6	18.0	19.8	21.1	20.3	21.5	22.0
	8H	15.9	17.1	16.4	17.6	18.0	20.2	21.4	20.7	21.8	22.3
	12H	15.9	17.1	16.4	17.5	18.0	20.6	21.7	21.1	22.2	22.7
4H	2H	15.0	16.3	15.4	16.7	17.2	16.6	17.9	17.0	18.4	18.8
	3H	16.4	17.6	16.9	18.0	18.5	18.8	19.9	19.2	20.4	20.9
	4H	16.9	17.9	17.4	18.4	18.9	19.8	20.8	20.3	21.3	21.8
	6H	17.2	18.1	17.7	18.6	19.1	20.7	21.7	21.2	22.2	22.7
	8H	17.2	18.1	17.7	18.6	19.1	21.2	22.1	21.7	22.6	23.1
	12H	17.3	18.1	17.8	18.6	19.1	21.7	22.5	22.2	23.0	23.6
8H	4H	17.4	18.3	17.9	18.8	19.3	20.0	20.8	20.5	21.3	21.9
	6H	17.9	18.6	18.4	19.2	19.7	21.1	21.8	21.6	22.3	22.9
	8H	18.0	18.7	18.6	19.2	19.8	21.6	22.3	22.2	22.9	23.4
	12H	18.1	18.7	18.7	19.2	19.9	22.3	22.9	22.8	23.4	24.0
12H	4H	17.5	18.3	18.1	18.9	19.4	20.0	20.7	20.5	21.3	21.8
	6H	18.1	18.7	18.6	19.3	19.9	21.1	21.8	21.7	22.3	22.9
	8H	18.3	18.9	18.9	19.4	20.1	21.7	22.3	22.3	22.9	23.5

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 605.657 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.)