

IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL15 UV FR 940 @230MA.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 230mA

[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	1544
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	10.3
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)	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	5984	5342	5204
55	5195	4714	4609
65	4162	3951	3867
75	3020	3151	3030
85	1738	2542	2297

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	189.26	N.A.	12.30
0-30	402.43	N.A.	26.10
0-40	658.87	N.A.	42.70
0-60	1154.78	N.A.	74.80
0-80	1438.73	N.A.	93.20
0-90	1494.08	N.A.	96.80
10-90	1445.19	N.A.	93.60
20-40	469.62	N.A.	30.40
20-50	732.81	N.A.	47.50
40-70	670.81	N.A.	43.50
60-80	283.95	N.A.	18.40
70-80	109.05	N.A.	7.10
80-90	55.35	N.A.	3.60
90-110	37.18	N.A.	2.40
90-120	43.40	N.A.	2.80
90-130	46.69	N.A.	3.00
90-150	49.16	N.A.	3.20
90-180	49.59	N.A.	3.20
110-180	12.41	N.A.	0.80
0-180	1543.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.89
10-20	140.37
20-30	213.17
30-40	256.45
40-50	263.19
50-60	232.72
60-70	174.90
70-80	109.05
80-90	55.35
90-100	25.09
100-110	12.09
110-120	6.22
120-130	3.29
130-140	1.68
140-150	0.78
150-160	0.34
160-170	0.10
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

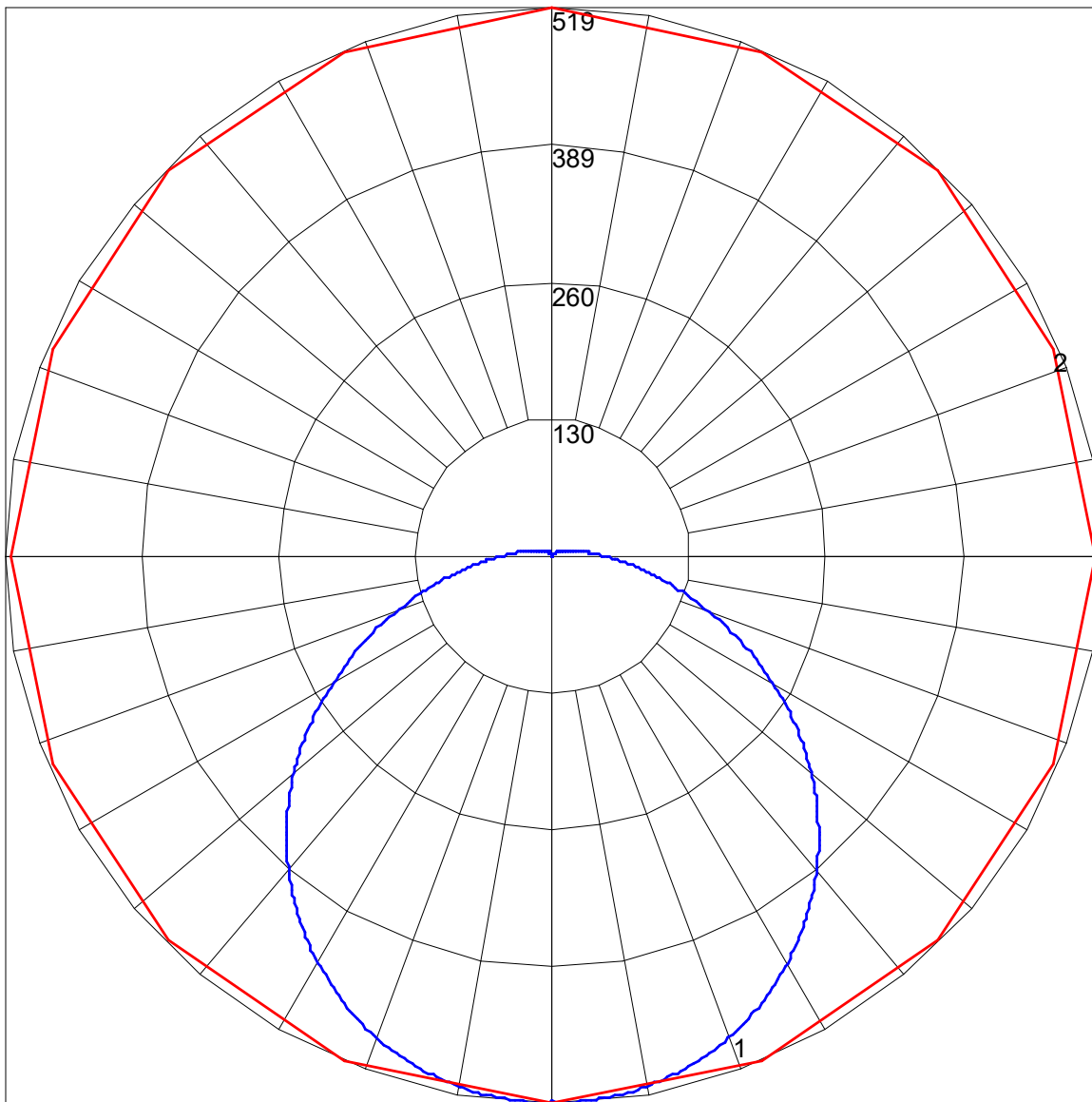
Reflectances

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	16.0	17.6	16.4	18.0	18.4	18.0	19.6	18.4	20.0	20.4
	3H	17.2	18.7	17.7	19.0	19.5	20.0	21.4	20.4	21.8	22.3
	4H	17.6	18.9	18.0	19.3	19.8	20.9	22.2	21.3	22.6	23.1
	6H	17.8	19.0	18.2	19.5	19.9	21.6	22.9	22.1	23.3	23.8
	8H	17.8	19.0	18.3	19.5	19.9	22.0	23.2	22.5	23.7	24.1
	12H	17.8	19.0	18.3	19.4	19.9	22.4	23.5	22.9	24.0	24.5
4H	2H	16.9	18.2	17.3	18.6	19.1	18.5	19.8	18.9	20.2	20.7
	3H	18.3	19.4	18.7	19.9	20.4	20.6	21.8	21.1	22.2	22.7
	4H	18.8	19.8	19.2	20.3	20.8	21.6	22.7	22.1	23.1	23.6
	6H	19.1	20.0	19.6	20.5	21.0	22.6	23.5	23.1	24.0	24.5
	8H	19.1	20.0	19.6	20.5	21.0	23.0	23.9	23.5	24.4	24.9
	12H	19.2	19.9	19.7	20.5	21.0	23.5	24.3	24.0	24.8	25.4
8H	4H	19.3	20.2	19.8	20.7	21.2	21.8	22.7	22.3	23.2	23.7
	6H	19.8	20.5	20.3	21.0	21.6	22.9	23.6	23.4	24.2	24.7
	8H	19.9	20.6	20.4	21.1	21.7	23.5	24.1	24.0	24.7	25.2
	12H	20.0	20.6	20.5	21.1	21.7	24.1	24.7	24.6	25.2	25.8
12H	4H	19.4	20.2	19.9	20.7	21.3	21.8	22.6	22.3	23.1	23.7
	6H	20.0	20.6	20.5	21.1	21.7	22.9	23.6	23.5	24.1	24.7
	8H	20.2	20.8	20.7	21.3	21.9	23.6	24.1	24.1	24.7	25.3

Maximum UGR = 25.8

POLAR GRAPH



Maximum Candela = 519.174 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.)