



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 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 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 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	1814
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	12.2
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	7033	6279	6116
55	6106	5540	5417
65	4891	4643	4545
75	3549	3704	3561
85	2043	2988	2700

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	222.43	N.A.	12.30
0-30	472.96	N.A.	26.10
0-40	774.35	N.A.	42.70
0-60	1357.18	N.A.	74.80
0-80	1690.9	N.A.	93.20
0-90	1755.95	N.A.	96.80
10-90	1698.49	N.A.	93.60
20-40	551.93	N.A.	30.40
20-50	861.25	N.A.	47.50
40-70	788.38	N.A.	43.50
60-80	333.72	N.A.	18.40
70-80	128.16	N.A.	7.10
80-90	65.05	N.A.	3.60
90-110	43.70	N.A.	2.40
90-120	51.01	N.A.	2.80
90-130	54.88	N.A.	3.00
90-150	57.78	N.A.	3.20
90-180	58.28	N.A.	3.20
110-180	14.59	N.A.	0.80
0-180	1814.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.46
10-20	164.97
20-30	250.53
30-40	301.39
40-50	309.32
50-60	273.50
60-70	205.56
70-80	128.16
80-90	65.05
90-100	29.49
100-110	14.20
110-120	7.31
120-130	3.87
130-140	1.98
140-150	0.92
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	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	16.6	18.2	17.0	18.6	19.0	18.6	20.2	19.0	20.6	21.0
	3H	17.8	19.3	18.3	19.6	20.1	20.6	22.0	21.0	22.4	22.9
	4H	18.2	19.5	18.6	19.9	20.4	21.5	22.8	21.9	23.2	23.7
	6H	18.4	19.6	18.8	20.1	20.5	22.2	23.5	22.7	23.9	24.4
	8H	18.4	19.6	18.9	20.1	20.5	22.6	23.8	23.1	24.3	24.7
	12H	18.4	19.6	18.9	20.0	20.5	23.0	24.1	23.5	24.6	25.1

UGR Viewed Endwise

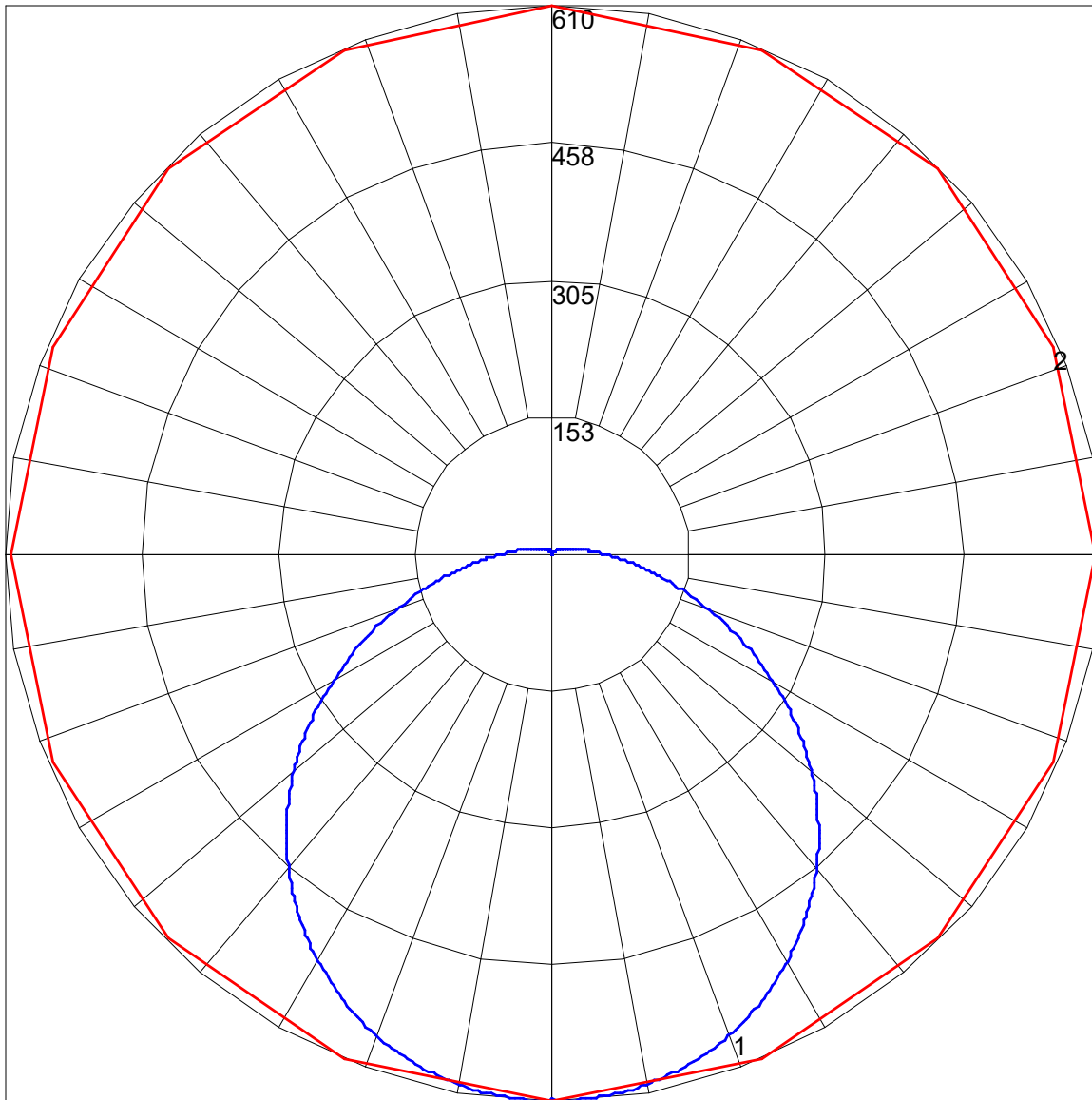
4H	2H	17.5	18.8	17.9	19.2	19.7	19.1	20.4	19.5	20.8	21.3
	3H	18.9	20.0	19.3	20.5	21.0	21.2	22.4	21.7	22.8	23.3
	4H	19.4	20.4	19.8	20.9	21.4	22.2	23.3	22.7	23.7	24.2
	6H	19.7	20.6	20.2	21.1	21.6	23.2	24.1	23.7	24.6	25.1
	8H	19.7	20.6	20.2	21.1	21.6	23.6	24.5	24.1	25.0	25.5
	12H	19.8	20.5	20.3	21.1	21.6	24.1	24.9	24.6	25.4	26.0

8H	4H	19.9	20.8	20.4	21.3	21.8	22.4	23.3	22.9	23.8	24.3
	6H	20.4	21.1	20.9	21.6	22.2	23.5	24.2	24.0	24.8	25.3
	8H	20.5	21.2	21.0	21.7	22.3	24.1	24.7	24.6	25.3	25.8
	12H	20.6	21.2	21.1	21.7	22.3	24.7	25.3	25.2	25.8	26.4

12H	4H	20.0	20.8	20.5	21.3	21.9	22.4	23.2	22.9	23.7	24.3
	6H	20.6	21.2	21.1	21.7	22.3	23.5	24.2	24.1	24.7	25.3
	8H	20.8	21.4	21.3	21.9	22.5	24.2	24.7	24.7	25.3	25.9

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 610.17 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.)