



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL35 UV FR 940 @550MA.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 SEL35 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-35-UV-PS650-54-VDIM-LM1 LED driver set at 550mA

[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	4220
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	26.8
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	16358	14604	14226
55	14202	12885	12599
65	11376	10800	10572
75	8255	8615	8283
85	4751	6950	6279

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Zone	Lumens	%Lamp	%Fixt
0-20	517.34	N.A.	12.30
0-30	1100.06	N.A.	26.10
0-40	1801.08	N.A.	42.70
0-60	3156.67	N.A.	74.80
0-80	3932.87	N.A.	93.20
0-90	4084.17	N.A.	96.80
10-90	3950.53	N.A.	93.60
20-40	1283.73	N.A.	30.40
20-50	2003.18	N.A.	47.50
40-70	1833.7	N.A.	43.50
60-80	776.20	N.A.	18.40
70-80	298.10	N.A.	7.10
80-90	151.29	N.A.	3.60
90-110	101.64	N.A.	2.40
90-120	118.64	N.A.	2.80
90-130	127.64	N.A.	3.00
90-150	134.38	N.A.	3.20
90-180	135.56	N.A.	3.20
110-180	33.93	N.A.	0.80
0-180	4219.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.64
10-20	383.71
20-30	582.72
30-40	701.01
40-50	719.45
50-60	636.15
60-70	478.11
70-80	298.10
80-90	151.29
90-100	68.60
100-110	33.04
110-120	17.01
120-130	8.99
130-140	4.60
140-150	2.14
150-160	0.92
160-170	0.26
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

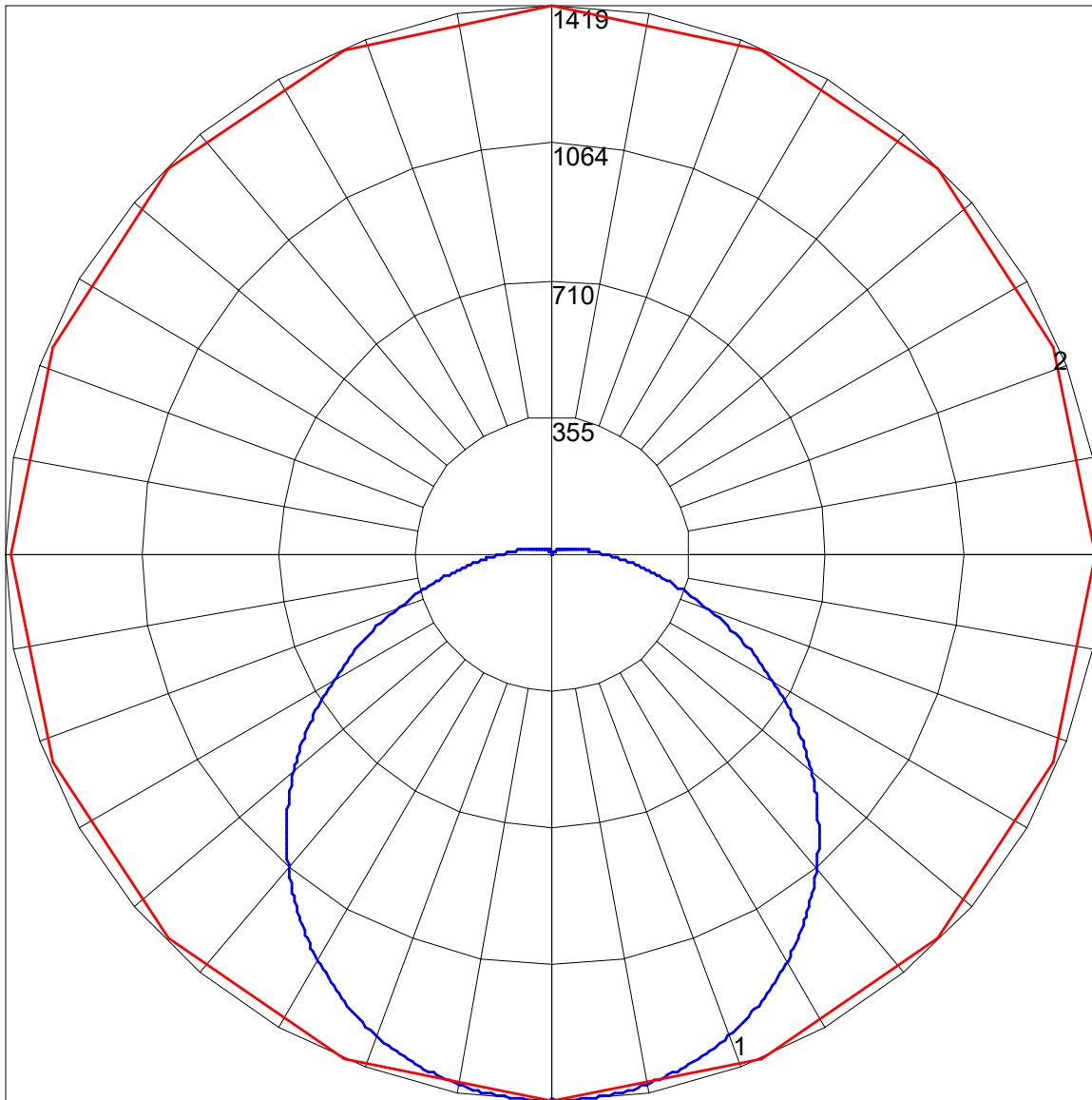
X=2H	Y=2H	19.5	21.1	19.9	21.5	21.9	21.5	23.1	21.9	23.5	23.9
	3H	20.7	22.2	21.2	22.5	23.0	23.5	24.9	23.9	25.3	25.8
	4H	21.1	22.4	21.5	22.8	23.3	24.4	25.7	24.8	26.1	26.6
	6H	21.3	22.5	21.7	23.0	23.4	25.1	26.4	25.6	26.8	27.3
	8H	21.3	22.5	21.8	23.0	23.4	25.5	26.7	26.0	27.2	27.6
	12H	21.3	22.5	21.8	22.9	23.4	25.9	27.1	26.4	27.5	28.0

UGR Viewed Endwise

4H	2H	20.4	21.7	20.8	22.1	22.6	22.0	23.3	22.4	23.7	24.2
	3H	21.8	22.9	22.2	23.4	23.9	24.1	25.3	24.6	25.7	26.2
	4H	22.3	23.3	22.7	23.8	24.3	25.1	26.2	25.6	26.6	27.1
	6H	22.6	23.5	23.1	24.0	24.5	26.1	27.0	26.6	27.5	28.0
	8H	22.6	23.5	23.1	24.0	24.5	26.5	27.4	27.0	27.9	28.4
	12H	22.7	23.4	23.2	24.0	24.5	27.0	27.8	27.5	28.3	28.9
8H	4H	22.8	23.7	23.3	24.2	24.7	25.3	26.2	25.8	26.7	27.2
	6H	23.3	24.0	23.8	24.5	25.1	26.4	27.1	26.9	27.7	28.2
	8H	23.4	24.1	23.9	24.6	25.2	27.0	27.6	27.5	28.2	28.7
	12H	23.5	24.1	24.0	24.6	25.2	27.6	28.2	28.1	28.7	29.3
12H	4H	22.9	23.7	23.4	24.2	24.8	25.3	26.1	25.8	26.6	27.2
	6H	23.5	24.1	24.0	24.6	25.2	26.4	27.1	27.0	27.6	28.2
	8H	23.7	24.3	24.2	24.8	25.4	27.1	27.6	27.6	28.2	28.8

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 1419.197 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.)