



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL100 UV FR 935 @1800MA.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 SEL100 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 3500K

[BALLAST] One KTLD-100-UV-PS1800-54-VDIM-LM2 LED driver set at 1800mA

[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	13164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	90.2
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)	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	25792	22950	22250
55	22469	20279	19706
65	18100	17034	16534
75	13293	13633	12955
85	8066	11075	9821

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Zone	Lumens	%Lamp	%Fixt
0-20	1613.88	N.A.	12.30
0-30	3431.72	N.A.	26.10
0-40	5618.57	N.A.	42.70
0-60	9847.44	N.A.	74.80
0-80	12268.85	N.A.	93.20
0-90	12740.83	N.A.	96.80
10-90	12323.94	N.A.	93.60
20-40	4004.69	N.A.	30.40
20-50	6249.06	N.A.	47.50
40-70	5720.35	N.A.	43.50
60-80	2421.42	N.A.	18.40
70-80	929.94	N.A.	7.10
80-90	471.97	N.A.	3.60
90-110	317.06	N.A.	2.40
90-120	370.11	N.A.	2.80
90-130	398.17	N.A.	3.00
90-150	419.21	N.A.	3.20
90-180	422.90	N.A.	3.20
110-180	105.84	N.A.	0.80
0-180	13163.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	416.89
10-20	1197.00
20-30	1817.83
30-40	2186.85
40-50	2244.37
50-60	1984.5
60-70	1491.48
70-80	929.94
80-90	471.97
90-100	213.99
100-110	103.06
110-120	53.05
120-130	28.06
130-140	14.36
140-150	6.69
150-160	2.87
160-170	0.82
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	21.1	22.7	21.5	23.1	23.5	23.2	24.8	23.6	25.1	25.5
	3H	22.3	23.8	22.8	24.2	24.6	25.2	26.6	25.6	27.0	27.4
	4H	22.7	24.0	23.1	24.4	24.9	26.0	27.4	26.5	27.8	28.2
	6H	22.9	24.1	23.3	24.6	25.0	26.8	28.1	27.3	28.5	29.0
	8H	22.9	24.1	23.4	24.6	25.0	27.2	28.4	27.7	28.8	29.3
	12H	22.9	24.1	23.4	24.5	25.0	27.6	28.7	28.1	29.2	29.7

UGR Viewed Endwise

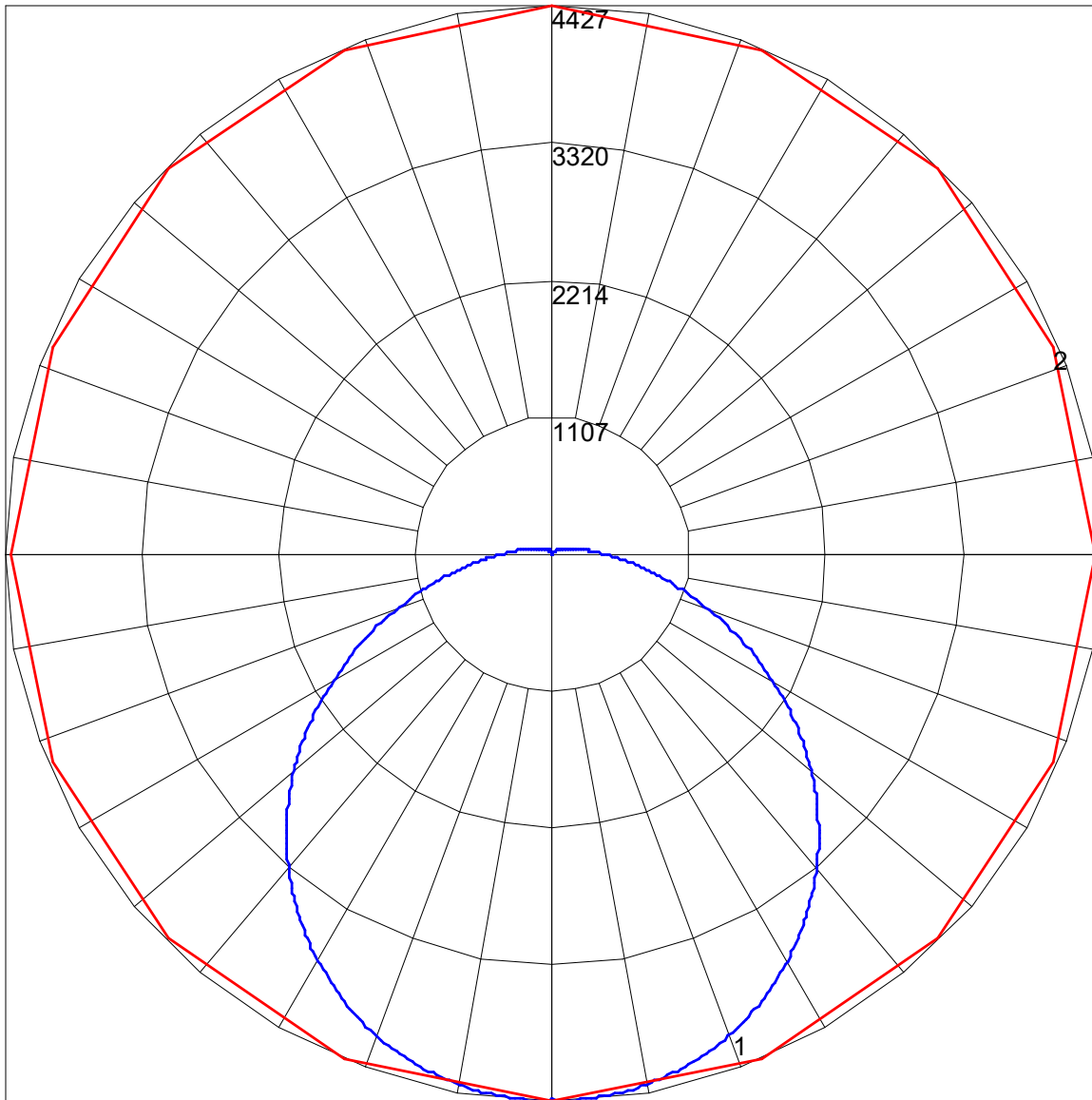
4H	2H	22.0	23.3	22.4	23.7	24.2	23.6	24.9	24.0	25.4	25.8
	3H	23.4	24.6	23.9	25.0	25.5	25.8	26.9	26.2	27.4	27.9
	4H	23.9	24.9	24.4	25.4	25.9	26.8	27.8	27.3	28.3	28.8
	6H	24.2	25.1	24.7	25.6	26.1	27.7	28.7	28.2	29.2	29.7
	8H	24.2	25.1	24.7	25.6	26.1	28.2	29.1	28.7	29.6	30.1
	12H	24.3	25.1	24.8	25.6	26.1	28.7	29.5	29.2	30.0	30.6

8H	4H	24.4	25.3	24.9	25.8	26.3	27.0	27.8	27.5	28.3	28.9
	6H	24.9	25.6	25.4	26.2	26.7	28.1	28.8	28.6	29.3	29.9
	8H	25.0	25.7	25.6	26.2	26.8	28.6	29.3	29.2	29.9	30.4
	12H	25.1	25.7	25.7	26.2	26.9	29.3	29.9	29.8	30.4	31.0

12H	4H	24.5	25.3	25.1	25.9	26.4	27.0	27.7	27.5	28.3	28.8
	6H	25.1	25.7	25.6	26.3	26.9	28.1	28.8	28.7	29.3	29.9
	8H	25.3	25.9	25.9	26.4	27.1	28.7	29.3	29.3	29.9	30.5

Maximum UGR = 31.0

POLAR GRAPH



Maximum Candela = 4427.275 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.)