



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL100 UV FR 935 @1700MA.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 1700mA

[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	12501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	84.8
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)	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	24493	21794	21129
55	21337	19258	18713
65	17188	16176	15702
75	12623	12947	12303
85	7660	10517	9327

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Zone	Lumens	%Lamp	%Fixt
0-20	1532.59	N.A.	12.30
0-30	3258.86	N.A.	26.10
0-40	5335.56	N.A.	42.70
0-60	9351.41	N.A.	74.80
0-80	11650.86	N.A.	93.20
0-90	12099.05	N.A.	96.80
10-90	11703.17	N.A.	93.60
20-40	3802.97	N.A.	30.40
20-50	5934.28	N.A.	47.50
40-70	5432.21	N.A.	43.50
60-80	2299.45	N.A.	18.40
70-80	883.09	N.A.	7.10
80-90	448.20	N.A.	3.60
90-110	301.09	N.A.	2.40
90-120	351.47	N.A.	2.80
90-130	378.11	N.A.	3.00
90-150	398.09	N.A.	3.20
90-180	401.60	N.A.	3.20
110-180	100.51	N.A.	0.80
0-180	12500.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	395.89
10-20	1136.7
20-30	1726.27
30-40	2076.7
40-50	2131.32
50-60	1884.53
60-70	1416.36
70-80	883.09
80-90	448.20
90-100	203.22
100-110	97.87
110-120	50.38
120-130	26.64
130-140	13.63
140-150	6.35
150-160	2.72
160-170	0.78
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	20.9	22.5	21.3	22.9	23.3	23.0	24.6	23.4	24.9	25.3
	3H	22.1	23.6	22.6	24.0	24.4	25.0	26.4	25.4	26.8	27.2
	4H	22.5	23.8	22.9	24.2	24.7	25.8	27.2	26.3	27.6	28.0
	6H	22.7	23.9	23.1	24.4	24.8	26.6	27.9	27.1	28.3	28.8
	8H	22.7	23.9	23.2	24.4	24.8	27.0	28.2	27.5	28.6	29.1
	12H	22.7	23.9	23.2	24.3	24.8	27.4	28.5	27.9	29.0	29.5

UGR Viewed Endwise

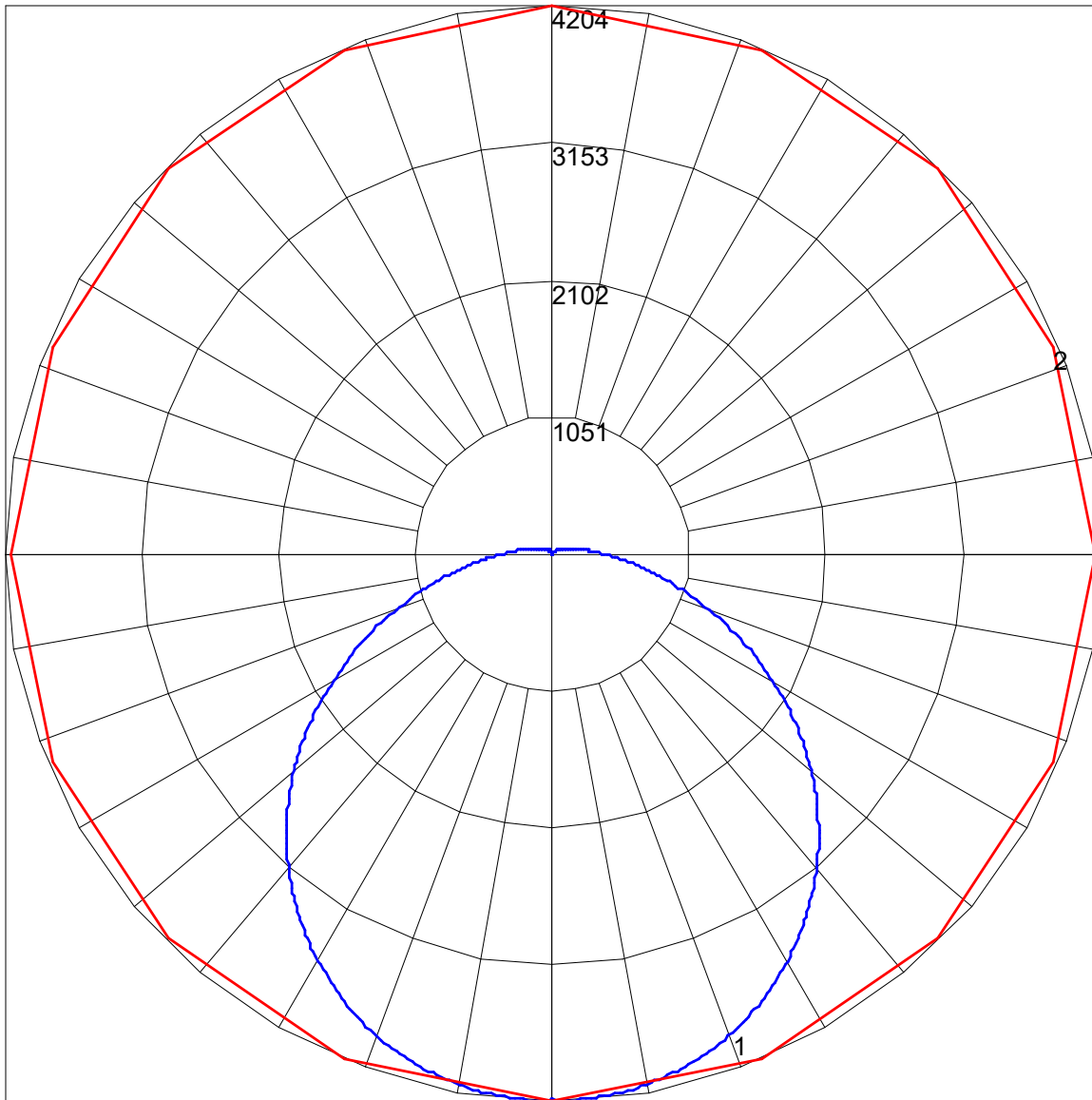
4H	2H	21.8	23.1	22.2	23.5	24.0	23.4	24.7	23.8	25.2	25.6
	3H	23.2	24.4	23.7	24.8	25.3	25.6	26.7	26.0	27.2	27.7
	4H	23.7	24.7	24.2	25.2	25.7	26.6	27.6	27.1	28.1	28.6
	6H	24.0	24.9	24.5	25.4	25.9	27.5	28.5	28.0	29.0	29.5
	8H	24.0	24.9	24.5	25.4	25.9	28.0	28.9	28.5	29.4	29.9
	12H	24.1	24.9	24.6	25.4	25.9	28.5	29.3	29.0	29.8	30.4

8H	4H	24.2	25.1	24.7	25.6	26.1	26.8	27.6	27.3	28.1	28.7
	6H	24.7	25.4	25.2	26.0	26.5	27.9	28.6	28.4	29.1	29.7
	8H	24.8	25.5	25.4	26.0	26.6	28.4	29.1	29.0	29.7	30.2
	12H	24.9	25.5	25.5	26.0	26.7	29.1	29.7	29.6	30.2	30.8

12H	4H	24.3	25.1	24.9	25.7	26.2	26.8	27.5	27.3	28.1	28.6
	6H	24.9	25.5	25.4	26.1	26.7	27.9	28.6	28.5	29.1	29.7
	8H	25.1	25.7	25.7	26.2	26.9	28.5	29.1	29.1	29.7	30.3

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 4204.267 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.)