



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL100 UV FR 930 @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 930

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 3000K

[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	12448
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	24390	21702	21040
55	21248	19177	18635
65	17116	16108	15636
75	12570	12892	12251
85	7627	10473	9287

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Zone	Lumens	%Lamp	%Fixt
0-20	1526.16	N.A.	12.30
0-30	3245.18	N.A.	26.10
0-40	5313.16	N.A.	42.70
0-60	9312.15	N.A.	74.80
0-80	11601.95	N.A.	93.20
0-90	12048.26	N.A.	96.80
10-90	11654.04	N.A.	93.60
20-40	3787.00	N.A.	30.40
20-50	5909.37	N.A.	47.50
40-70	5409.4	N.A.	43.50
60-80	2289.8	N.A.	18.40
70-80	879.39	N.A.	7.10
80-90	446.32	N.A.	3.60
90-110	299.82	N.A.	2.40
90-120	349.99	N.A.	2.80
90-130	376.52	N.A.	3.00
90-150	396.42	N.A.	3.20
90-180	399.91	N.A.	3.20
110-180	100.09	N.A.	0.80
0-180	12448.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	394.22
10-20	1131.93
20-30	1719.02
30-40	2067.98
40-50	2122.37
50-60	1876.62
60-70	1410.41
70-80	879.39
80-90	446.32
90-100	202.36
100-110	97.46
110-120	50.17
120-130	26.53
130-140	13.58
140-150	6.32
150-160	2.71
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	27.4	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

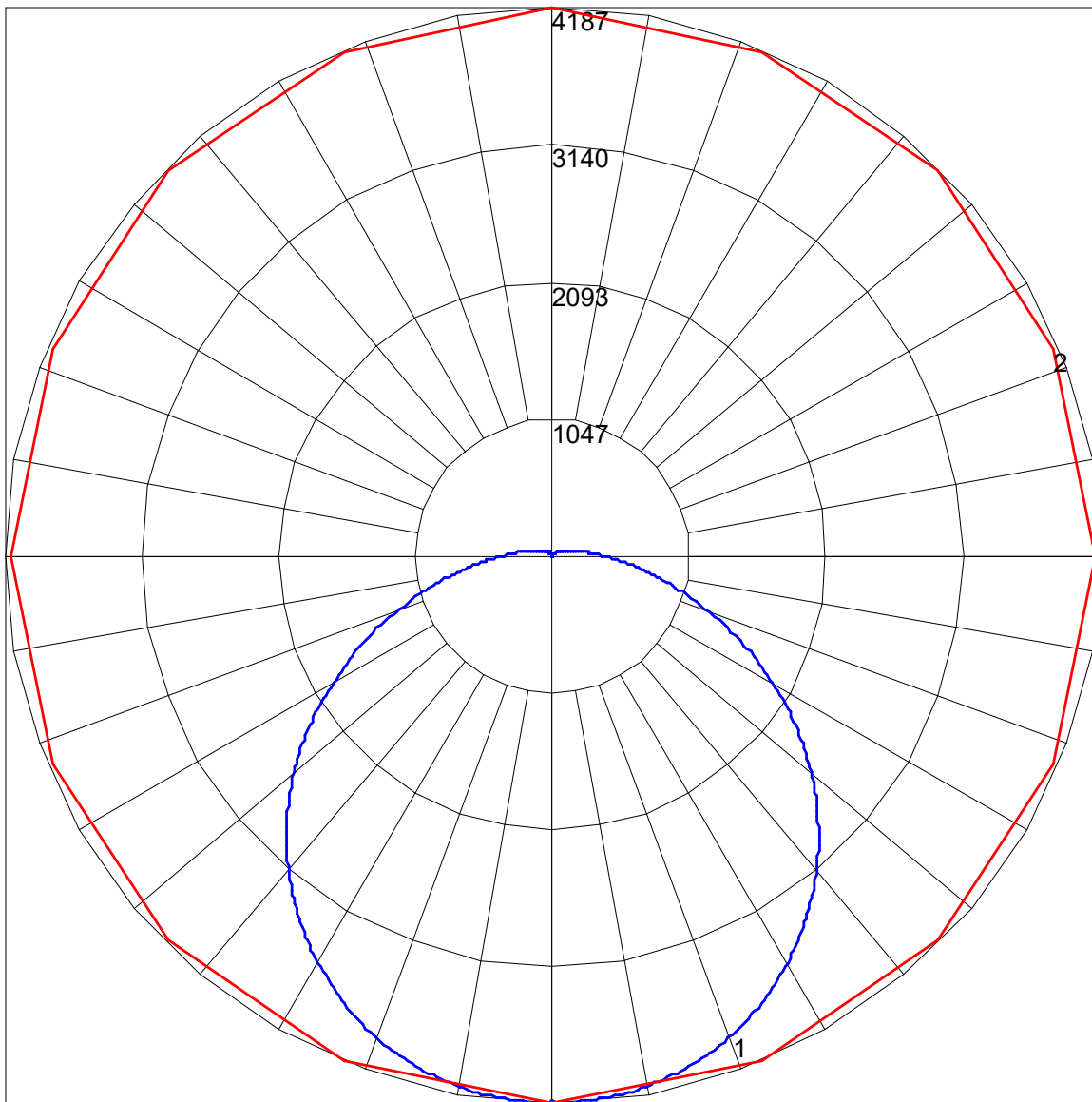
4H	2H	21.8	23.1	22.2	23.5	24.0	23.4	24.7	23.8	25.2	25.6
	3H	23.2	24.4	23.7	24.8	25.3	25.6	26.7	26.0	27.2	27.7
	4H	23.7	24.7	24.2	25.2	25.7	26.6	27.6	27.1	28.1	28.6
	6H	24.0	24.9	24.5	25.4	25.9	27.5	28.5	28.0	29.0	29.5
	8H	24.0	24.9	24.5	25.4	25.9	28.0	28.9	28.5	29.4	29.9
	12H	24.1	24.9	24.6	25.4	25.9	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 = 4186.619 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.)