



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL100 UV FR 940 @1500MA.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 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-100-UV-PS1800-54-VDIM-LM2 LED driver set at 1500mA

[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	11392
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	74.2
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	22322	19862	19256
55	19446	17551	17054
65	15664	14742	14310
75	11504	11799	11212
85	6980	9584	8500

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Zone	Lumens	%Lamp	%Fixt
0-20	1396.72	N.A.	12.30
0-30	2969.94	N.A.	26.10
0-40	4862.53	N.A.	42.70
0-60	8522.36	N.A.	74.80
0-80	10617.95	N.A.	93.20
0-90	11026.41	N.A.	96.80
10-90	10665.62	N.A.	93.60
20-40	3465.81	N.A.	30.40
20-50	5408.18	N.A.	47.50
40-70	4950.61	N.A.	43.50
60-80	2095.59	N.A.	18.40
70-80	804.80	N.A.	7.10
80-90	408.46	N.A.	3.60
90-110	274.39	N.A.	2.40
90-120	320.31	N.A.	2.80
90-130	344.59	N.A.	3.00
90-150	362.80	N.A.	3.20
90-180	365.99	N.A.	3.20
110-180	91.60	N.A.	0.80
0-180	11392.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	360.79
10-20	1035.93
20-30	1573.22
30-40	1892.59
40-50	1942.37
50-60	1717.46
60-70	1290.79
70-80	804.80
80-90	408.46
90-100	185.20
100-110	89.20
110-120	45.91
120-130	24.28
130-140	12.42
140-150	5.79
150-160	2.48
160-170	0.71
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	20.6	22.2	21.0	22.6	23.0	22.7	24.3	23.1	24.6	25.0
	3H	21.8	23.3	22.3	23.7	24.1	24.7	26.1	25.1	26.5	26.9
	4H	22.2	23.5	22.6	23.9	24.4	25.5	26.9	26.0	27.3	27.7
	6H	22.4	23.6	22.8	24.1	24.5	26.3	27.6	26.8	28.0	28.5
	8H	22.4	23.6	22.9	24.1	24.5	26.7	27.9	27.2	28.3	28.8
	12H	22.4	23.6	22.9	24.0	24.5	27.1	28.2	27.6	28.7	29.2

UGR Viewed Endwise

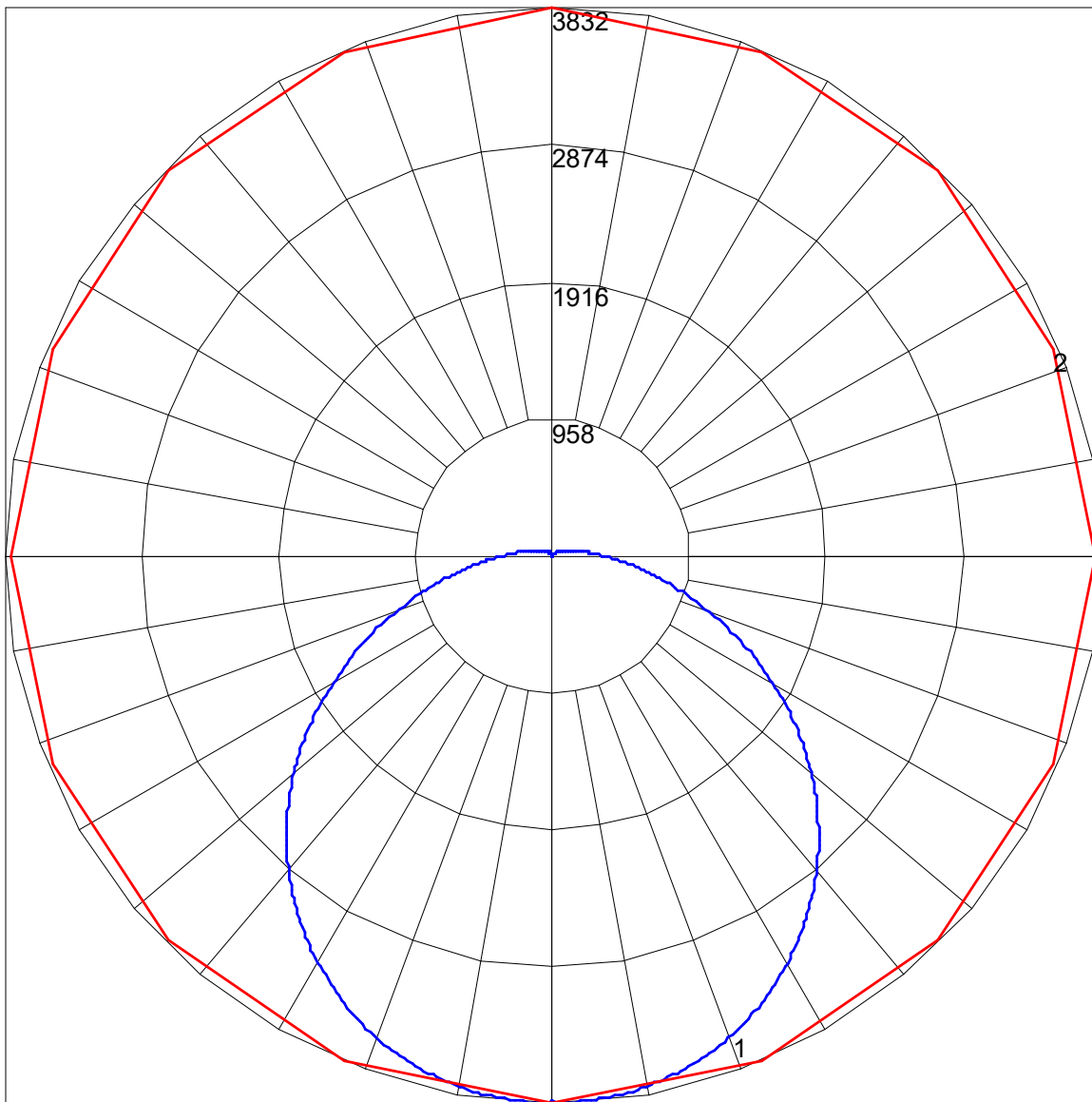
4H	2H	21.5	22.8	21.9	23.2	23.7	23.1	24.4	23.5	24.9	25.3
	3H	22.9	24.1	23.4	24.5	25.0	25.3	26.4	25.7	26.9	27.4
	4H	23.4	24.4	23.9	24.9	25.4	26.3	27.3	26.8	27.8	28.3
	6H	23.7	24.6	24.2	25.1	25.6	27.2	28.2	27.7	28.7	29.2
	8H	23.7	24.6	24.2	25.1	25.6	27.7	28.6	28.2	29.1	29.6
	12H	23.8	24.6	24.3	25.1	25.6	28.2	29.0	28.7	29.5	30.1

8H	4H	23.9	24.8	24.4	25.3	25.8	26.5	27.3	27.0	27.8	28.4
	6H	24.4	25.1	24.9	25.7	26.2	27.6	28.3	28.1	28.8	29.4
	8H	24.5	25.2	25.1	25.7	26.3	28.1	28.8	28.7	29.4	29.9
	12H	24.6	25.2	25.2	25.7	26.4	28.8	29.4	29.3	29.9	30.5

12H	4H	24.0	24.8	24.6	25.4	25.9	26.5	27.2	27.0	27.8	28.3
	6H	24.6	25.2	25.1	25.8	26.4	27.6	28.3	28.2	28.8	29.4
	8H	24.8	25.4	25.4	25.9	26.6	28.2	28.8	28.8	29.4	30.0

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 3831.538 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.)