



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL35 UV FR 940 @500MA.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 SEL35 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-35-UV-PS650-54-VDIM-LM1 LED driver set at 500mA

[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	3820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	23.7
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	7484	6659	6456
55	6520	5884	5718
65	5252	4943	4798
75	3857	3956	3759
85	2340	3213	2850

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Zone	Lumens	%Lamp	%Fixt
0-20	468.28	N.A.	12.30
0-30	995.73	N.A.	26.10
0-40	1630.26	N.A.	42.70
0-60	2857.29	N.A.	74.80
0-80	3559.88	N.A.	93.20
0-90	3696.83	N.A.	96.80
10-90	3575.86	N.A.	93.60
20-40	1161.98	N.A.	30.40
20-50	1813.2	N.A.	47.50
40-70	1659.79	N.A.	43.50
60-80	702.59	N.A.	18.40
70-80	269.83	N.A.	7.10
80-90	136.94	N.A.	3.60
90-110	92.00	N.A.	2.40
90-120	107.39	N.A.	2.80
90-130	115.53	N.A.	3.00
90-150	121.64	N.A.	3.20
90-180	122.71	N.A.	3.20
110-180	30.71	N.A.	0.80
0-180	3819.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.96
10-20	347.32
20-30	527.45
30-40	634.53
40-50	651.22
50-60	575.81
60-70	432.76
70-80	269.83
80-90	136.94
90-100	62.09
100-110	29.90
110-120	15.39
120-130	8.14
130-140	4.17
140-150	1.94
150-160	0.83
160-170	0.24
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	16.8	18.4	17.2	18.8	19.2	18.9	20.5	19.3	20.8	21.2
	3H	18.0	19.5	18.5	19.9	20.3	20.9	22.3	21.3	22.7	23.1
	4H	18.4	19.7	18.8	20.1	20.6	21.7	23.1	22.2	23.5	23.9
	6H	18.6	19.8	19.0	20.3	20.7	22.5	23.8	23.0	24.2	24.7
	8H	18.6	19.8	19.1	20.3	20.7	22.9	24.1	23.3	24.5	25.0
	12H	18.6	19.8	19.1	20.2	20.7	23.3	24.4	23.8	24.9	25.4

UGR Viewed Endwise

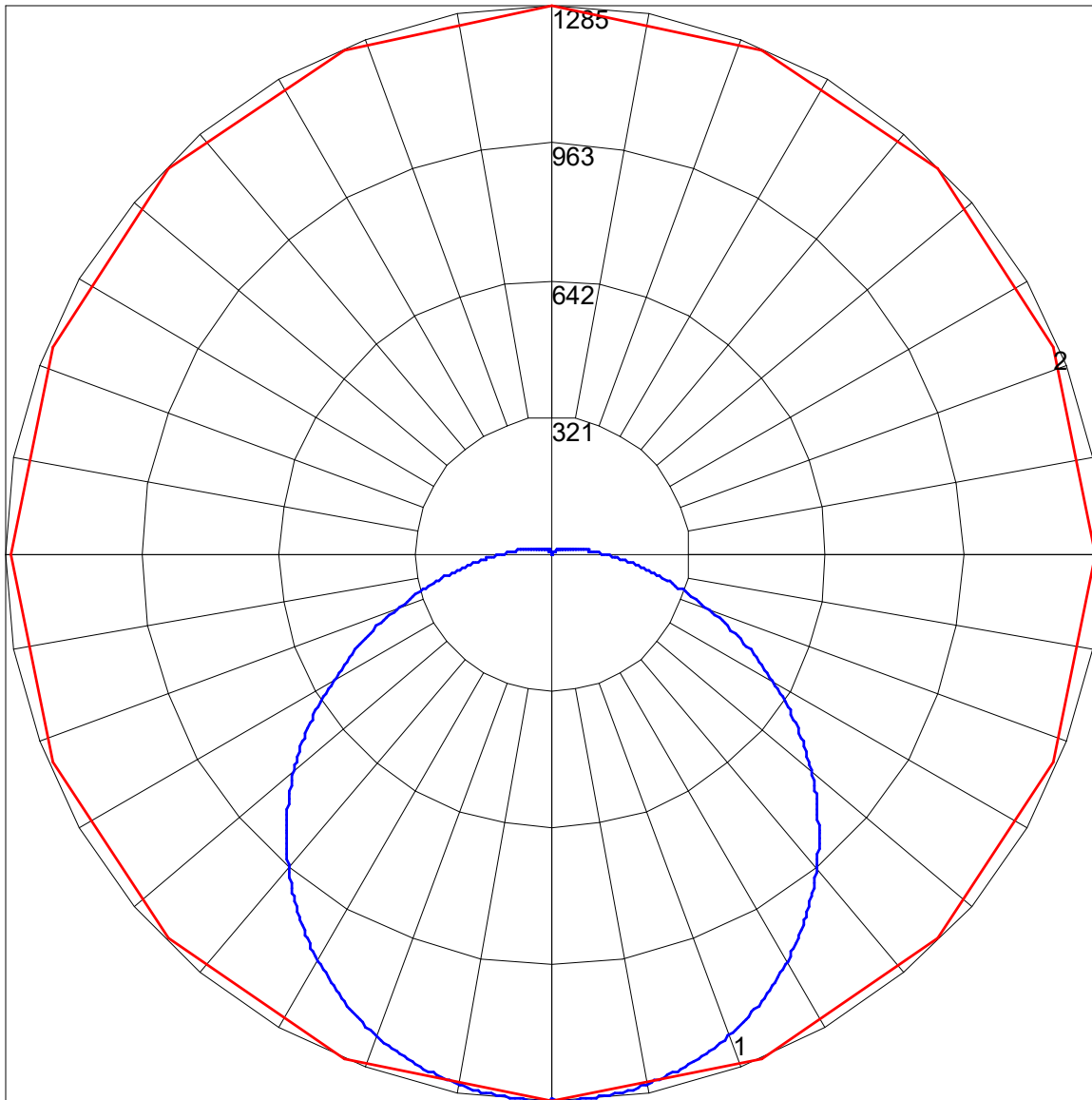
4H	2H	17.7	19.0	18.1	19.4	19.9	19.3	20.6	19.7	21.0	21.5
	3H	19.1	20.3	19.6	20.7	21.2	21.5	22.6	21.9	23.1	23.6
	4H	19.6	20.6	20.1	21.1	21.6	22.5	23.5	23.0	24.0	24.5
	6H	19.9	20.8	20.4	21.3	21.8	23.4	24.4	23.9	24.9	25.4
	8H	19.9	20.8	20.4	21.3	21.8	23.9	24.8	24.4	25.3	25.8
	12H	20.0	20.8	20.5	21.3	21.8	24.4	25.2	24.9	25.7	26.3

8H	4H	20.1	21.0	20.6	21.5	22.0	22.7	23.5	23.2	24.0	24.6
	6H	20.6	21.3	21.1	21.9	22.4	23.8	24.5	24.3	25.0	25.6
	8H	20.7	21.4	21.3	21.9	22.5	24.3	25.0	24.9	25.6	26.1
	12H	20.8	21.4	21.4	21.9	22.6	25.0	25.6	25.5	26.1	26.7

12H	4H	20.2	21.0	20.8	21.6	22.1	22.7	23.4	23.2	24.0	24.5
	6H	20.8	21.4	21.3	22.0	22.6	23.8	24.5	24.4	25.0	25.6
	8H	21.0	21.6	21.6	22.1	22.7	24.4	25.0	25.0	25.6	26.2

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 1284.6 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.)