



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL75 UV FR 935 @1300MA.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 4 SEL75 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 64 LED boards, 3500K

[BALLAST] One KTLD-75-UV-PS1400-54-VDIM-LM2 LED driver set at 1300mA

[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	9417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	65.6
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)	3.84 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	36506	32591	31747
55	31694	28755	28117
65	25388	24103	23592
75	18422	19225	18485
85	10603	15510	14014

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1154.54	N.A.	12.30
0-30	2454.99	N.A.	26.10
0-40	4019.42	N.A.	42.70
0-60	7044.68	N.A.	74.80
0-80	8776.92	N.A.	93.20
0-90	9114.55	N.A.	96.80
10-90	8816.32	N.A.	93.60
20-40	2864.88	N.A.	30.40
20-50	4470.46	N.A.	47.50
40-70	4092.23	N.A.	43.50
60-80	1732.24	N.A.	18.40
70-80	665.26	N.A.	7.10
80-90	337.64	N.A.	3.60
90-110	226.82	N.A.	2.40
90-120	264.77	N.A.	2.80
90-130	284.84	N.A.	3.00
90-150	299.90	N.A.	3.20
90-180	302.54	N.A.	3.20
110-180	75.72	N.A.	0.80
0-180	9417.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	298.23
10-20	856.31
20-30	1300.44
30-40	1564.44
40-50	1605.58
50-60	1419.67
60-70	1066.98
70-80	665.26
80-90	337.64
90-100	153.09
100-110	73.73
110-120	37.95
120-130	20.07
130-140	10.27
140-150	4.78
150-160	2.05
160-170	0.59
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	22.3	23.9	22.7	24.3	24.7	24.3	25.9	24.7	26.3	26.7
	3H	23.5	25.0	24.0	25.3	25.8	26.3	27.7	26.7	28.1	28.6
	4H	23.9	25.2	24.3	25.6	26.1	27.2	28.5	27.6	28.9	29.4
	6H	24.1	25.3	24.5	25.8	26.2	27.9	29.2	28.4	29.6	30.1
	8H	24.1	25.3	24.6	25.8	26.2	28.3	29.5	28.8	30.0	30.4
	12H	24.1	25.3	24.6	25.7	26.2	28.7	29.8	29.2	30.3	30.8

UGR Viewed Endwise

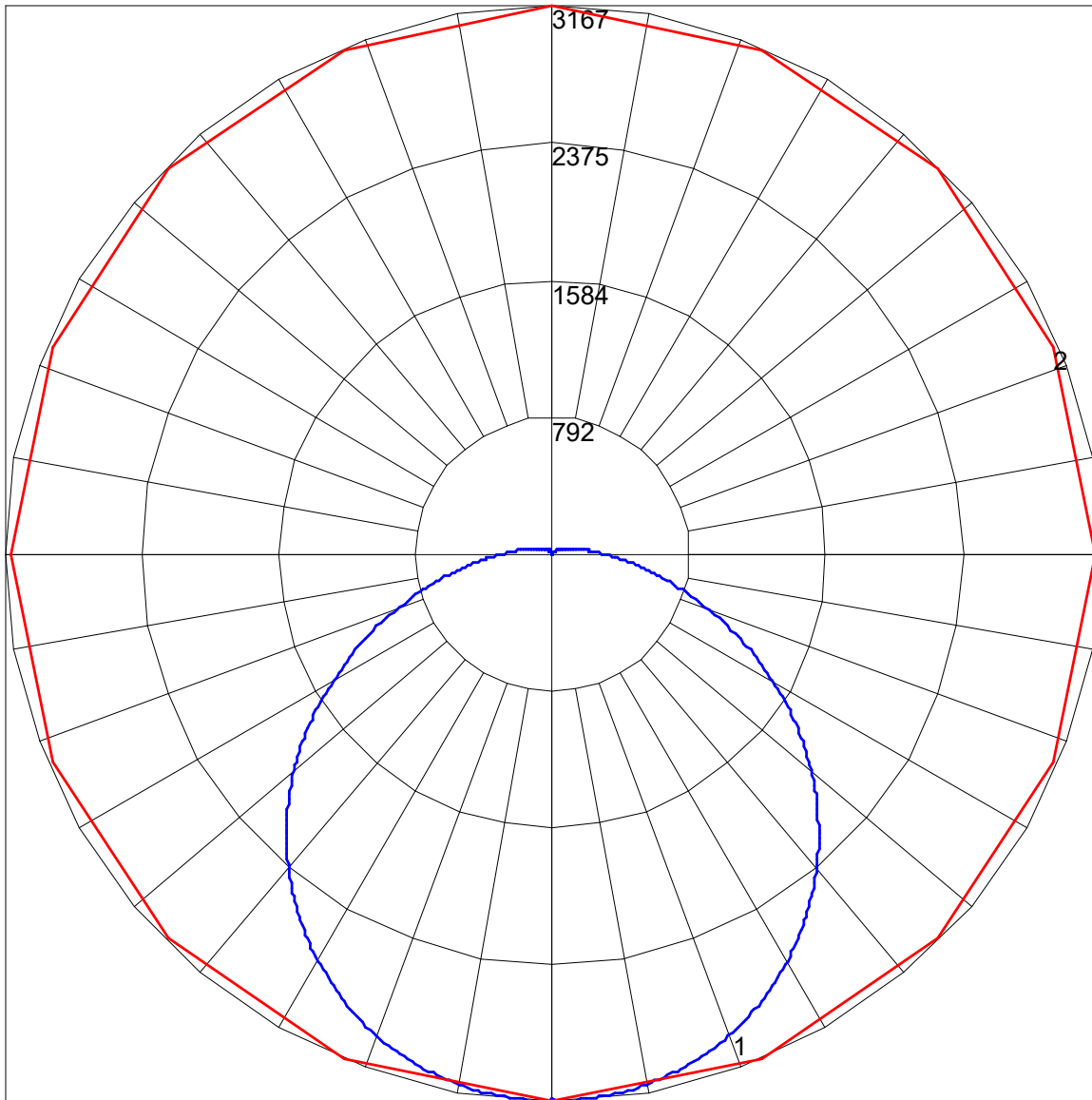
4H	2H	23.2	24.5	23.6	24.9	25.4	24.8	26.1	25.2	26.5	27.0
	3H	24.6	25.7	25.0	26.2	26.7	26.9	28.1	27.4	28.5	29.0
	4H	25.1	26.1	25.5	26.6	27.1	27.9	29.0	28.4	29.4	29.9
	6H	25.4	26.3	25.9	26.8	27.3	28.9	29.8	29.4	30.3	30.8
	8H	25.4	26.3	25.9	26.8	27.3	29.3	30.2	29.8	30.7	31.2
	12H	25.5	26.2	26.0	26.8	27.3	29.8	30.6	30.3	31.1	31.7

8H	4H	25.6	26.5	26.1	27.0	27.5	28.1	29.0	28.6	29.5	30.0
	6H	26.1	26.8	26.6	27.3	27.9	29.2	29.9	29.7	30.5	31.0
	8H	26.2	26.9	26.7	27.4	28.0	29.8	30.4	30.3	31.0	31.5
	12H	26.3	26.9	26.8	27.4	28.0	30.4	31.0	30.9	31.5	32.1

12H	4H	25.7	26.5	26.2	27.0	27.6	28.1	28.9	28.6	29.4	30.0
	6H	26.3	26.9	26.8	27.4	28.0	29.2	29.9	29.8	30.4	31.0
	8H	26.5	27.1	27.0	27.6	28.2	29.9	30.4	30.4	31.0	31.6

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 3167.192 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.)