



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 SEL45 UV FR 935 @800MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 2 SEL45 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] One LS3872A 84 LED board, 3500K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set at 800mA

[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	5157
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	35.2
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)	1.99 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	37229	34018	33578
55	31883	29797	29747
65	25274	24890	25230
75	18143	19957	20171
85	10024	16185	15896

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	630.59	N.A.	12.20
0-30	1341.61	N.A.	26.00
0-40	2195.7	N.A.	42.60
0-60	3837.63	N.A.	74.40
0-80	4784.63	N.A.	92.80
0-90	4975.65	N.A.	96.50
10-90	4812.86	N.A.	93.30
20-40	1565.11	N.A.	30.30
20-50	2437.92	N.A.	47.30
40-70	2221.87	N.A.	43.10
60-80	947.01	N.A.	18.40
70-80	367.06	N.A.	7.10
80-90	191.02	N.A.	3.70
90-110	132.11	N.A.	2.60
90-120	154.92	N.A.	3.00
90-130	167.46	N.A.	3.20
90-150	178.69	N.A.	3.50
90-180	181.84	N.A.	3.50
110-180	49.74	N.A.	1.00
0-180	5157.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.79
10-20	467.80
20-30	711.02
30-40	854.09
40-50	872.81
50-60	769.12
60-70	579.95
70-80	367.06
80-90	191.02
90-100	88.76
100-110	43.35
110-120	22.82
120-130	12.54
130-140	7.16
140-150	4.08
150-160	2.25
160-170	0.81
170-180	0.09

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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	96
1	107	102	98	93	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	42	35	62	49	41	35	47	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	43	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	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	23.8	22.7	24.2	24.7	24.4	26.0	24.8	26.4	26.8
	3H	23.5	24.9	23.9	25.3	25.8	26.4	27.8	26.9	28.2	28.7
	4H	23.8	25.2	24.3	25.6	26.1	27.3	28.6	27.7	29.0	29.5
	6H	24.0	25.3	24.5	25.7	26.2	28.1	29.3	28.6	29.8	30.3
	8H	24.1	25.3	24.6	25.7	26.2	28.5	29.7	29.0	30.1	30.6
	12H	24.1	25.2	24.6	25.7	26.2	28.9	30.0	29.4	30.5	31.0

UGR Viewed Endwise

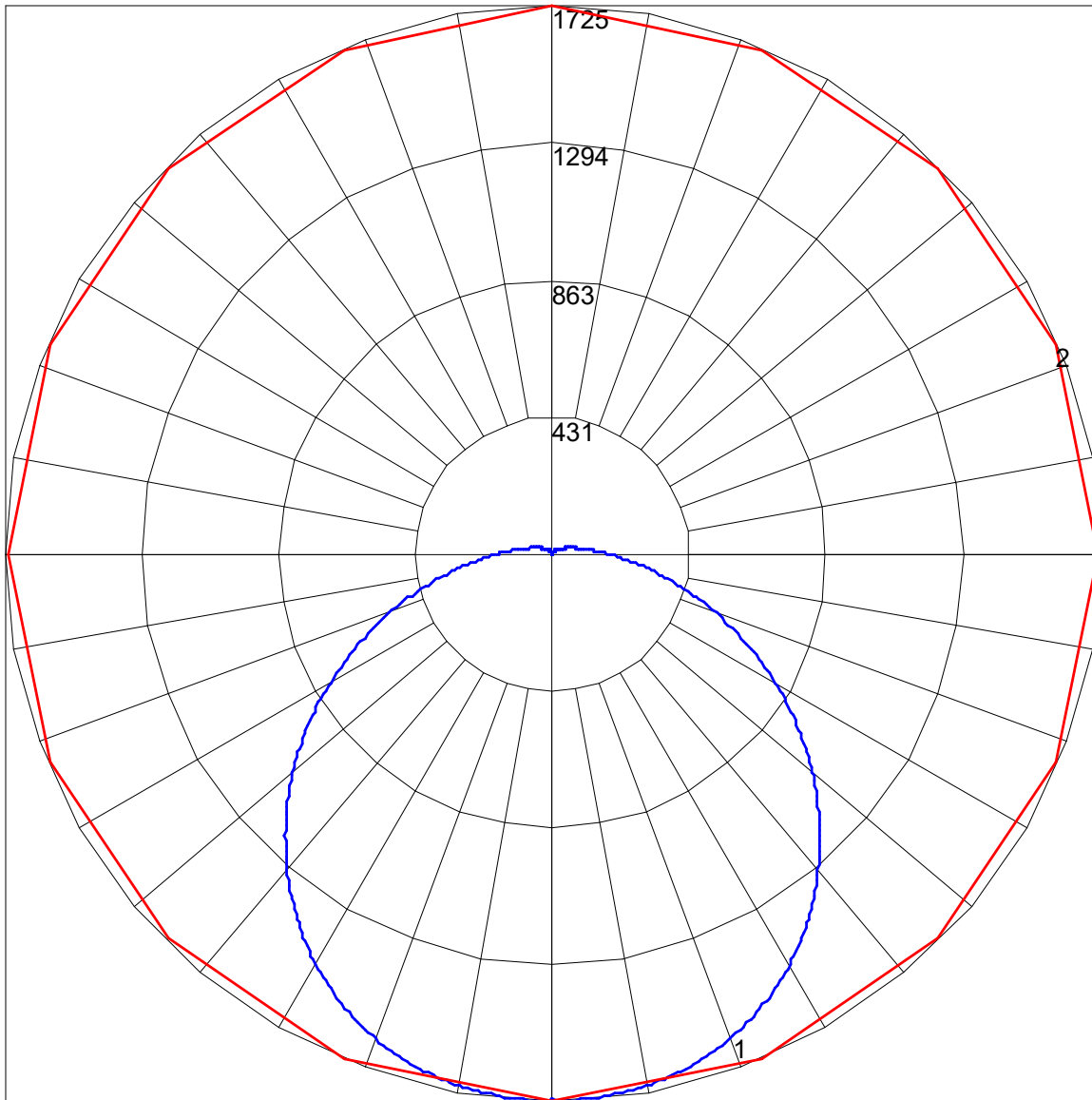
4H	2H	23.1	24.5	23.6	24.9	25.4	24.8	26.2	25.3	26.6	27.1
	3H	24.6	25.7	25.1	26.2	26.7	27.0	28.2	27.5	28.6	29.1
	4H	25.1	26.1	25.6	26.6	27.1	28.1	29.1	28.6	29.6	30.1
	6H	25.4	26.3	25.9	26.8	27.3	29.0	29.9	29.6	30.4	31.0
	8H	25.4	26.3	26.0	26.8	27.3	29.5	30.3	30.0	30.9	31.4
	12H	25.5	26.2	26.0	26.8	27.3	30.0	30.8	30.5	31.3	31.9

8H	4H	25.6	26.5	26.1	27.0	27.5	28.2	29.1	28.8	29.6	30.2
	6H	26.1	26.8	26.6	27.3	27.9	29.4	30.1	29.9	30.6	31.2
	8H	26.2	26.9	26.8	27.4	28.0	29.9	30.6	30.5	31.2	31.7
	12H	26.3	26.9	26.9	27.4	28.1	30.6	31.2	31.2	31.7	32.4

12H	4H	25.7	26.5	26.3	27.0	27.6	28.2	29.0	28.8	29.5	30.1
	6H	26.3	26.9	26.9	27.5	28.1	29.4	30.0	30.0	30.6	31.2
	8H	26.5	27.1	27.1	27.6	28.3	30.1	30.6	30.6	31.2	31.8

Maximum UGR = 32.4

POLAR GRAPH



Maximum Candela = 1725.293 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.)