



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL45 UV FR 935 @800MA.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 SEL45 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 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	5910
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	40.2
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)	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	22912	20455	19925
55	19892	18047	17647
65	15934	15127	14807
75	11562	12066	11601
85	6655	9735	8795

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	724.60	N.A.	12.30
0-30	1540.78	N.A.	26.10
0-40	2522.63	N.A.	42.70
0-60	4421.31	N.A.	74.80
0-80	5508.49	N.A.	93.20
0-90	5720.39	N.A.	96.80
10-90	5533.22	N.A.	93.60
20-40	1798.03	N.A.	30.40
20-50	2805.71	N.A.	47.50
40-70	2568.33	N.A.	43.50
60-80	1087.17	N.A.	18.40
70-80	417.52	N.A.	7.10
80-90	211.91	N.A.	3.60
90-110	142.35	N.A.	2.40
90-120	166.17	N.A.	2.80
90-130	178.77	N.A.	3.00
90-150	188.22	N.A.	3.20
90-180	189.87	N.A.	3.20
110-180	47.52	N.A.	0.80
0-180	5910.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.17
10-20	537.43
20-30	816.17
30-40	981.86
40-50	1007.68
50-60	891.00
60-70	669.65
70-80	417.52
80-90	211.91
90-100	96.08
100-110	46.27
110-120	23.82
120-130	12.60
130-140	6.45
140-150	3.00
150-160	1.29
160-170	0.37
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	20.7	22.3	21.1	22.7	23.1	22.7	24.3	23.1	24.7	25.1
	3H	21.9	23.4	22.4	23.7	24.2	24.7	26.1	25.1	26.5	27.0
	4H	22.3	23.6	22.7	24.0	24.5	25.6	26.9	26.0	27.3	27.8
	6H	22.5	23.7	22.9	24.2	24.6	26.3	27.6	26.8	28.0	28.5
	8H	22.5	23.7	23.0	24.2	24.6	26.7	27.9	27.2	28.4	28.8
	12H	22.5	23.7	23.0	24.1	24.6	27.1	28.3	27.6	28.7	29.2

UGR Viewed Endwise

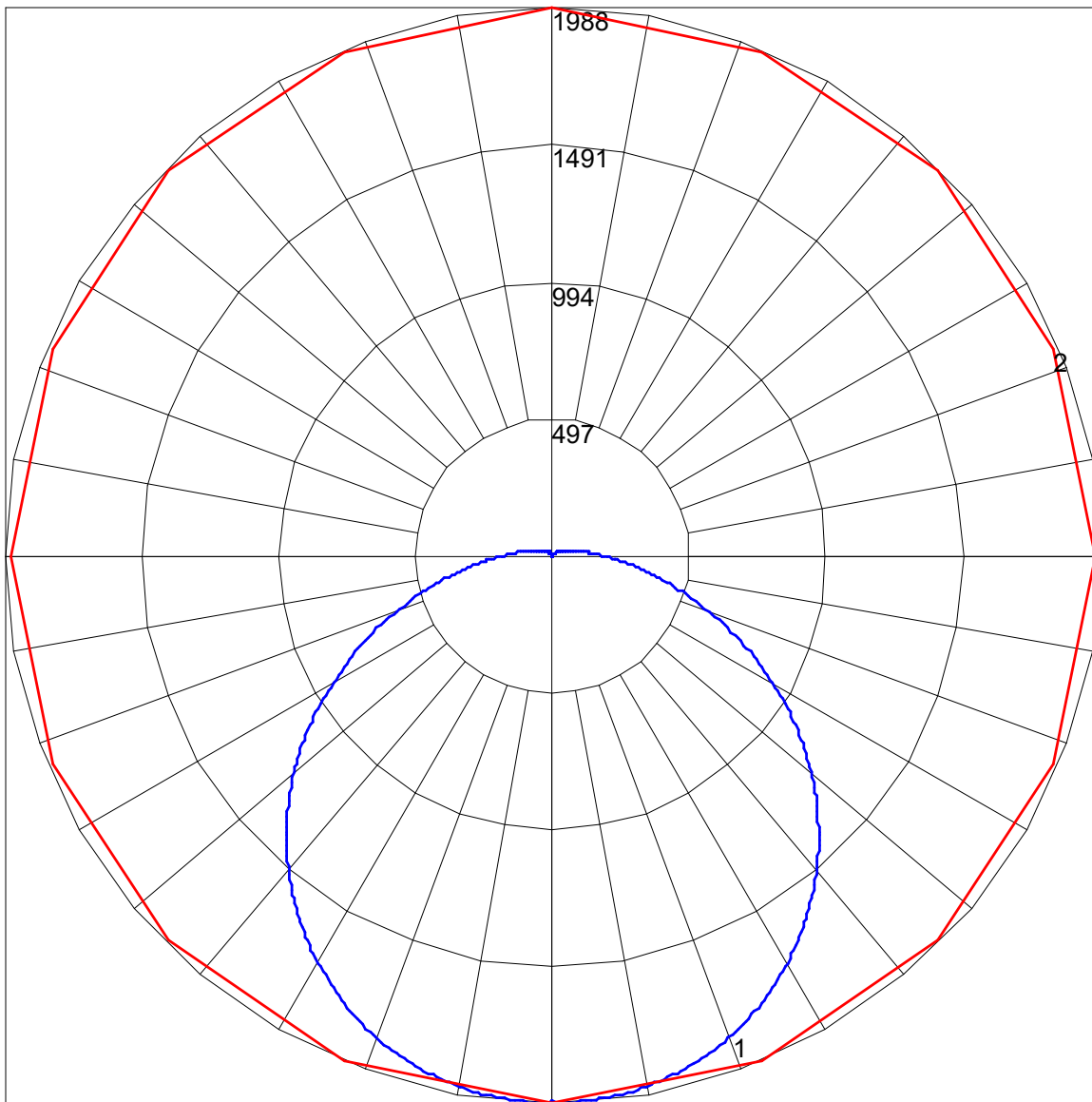
4H	2H	21.6	22.9	22.0	23.3	23.8	23.2	24.5	23.6	24.9	25.4
	3H	23.0	24.1	23.4	24.6	25.1	25.3	26.5	25.8	26.9	27.4
	4H	23.5	24.5	23.9	25.0	25.5	26.3	27.4	26.8	27.8	28.3
	6H	23.8	24.7	24.3	25.2	25.7	27.3	28.2	27.8	28.7	29.2
	8H	23.8	24.7	24.3	25.2	25.7	27.7	28.6	28.2	29.1	29.6
	12H	23.9	24.6	24.4	25.2	25.7	28.2	29.0	28.7	29.5	30.1

8H	4H	24.0	24.9	24.5	25.4	25.9	26.5	27.4	27.0	27.9	28.4
	6H	24.5	25.2	25.0	25.7	26.3	27.6	28.3	28.1	28.9	29.4
	8H	24.6	25.3	25.1	25.8	26.4	28.2	28.8	28.7	29.4	29.9
	12H	24.7	25.3	25.2	25.8	26.4	28.8	29.4	29.3	29.9	30.5

12H	4H	24.1	24.9	24.6	25.4	26.0	26.5	27.3	27.0	27.8	28.4
	6H	24.7	25.3	25.2	25.8	26.4	27.6	28.3	28.2	28.8	29.4
	8H	24.9	25.5	25.4	26.0	26.6	28.3	28.8	28.8	29.4	30.0

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 1987.764 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.)