



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL45 UV FR 935 @850MA.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 850mA

[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	6250
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	42.9
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	24227	21629	21069
55	21034	19083	18660
65	16849	15996	15657
75	12226	12759	12267
85	7037	10293	9300

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	766.20	N.A.	12.30
0-30	1629.23	N.A.	26.10
0-40	2667.46	N.A.	42.70
0-60	4675.14	N.A.	74.80
0-80	5824.73	N.A.	93.20
0-90	6048.8	N.A.	96.80
10-90	5850.88	N.A.	93.60
20-40	1901.25	N.A.	30.40
20-50	2966.79	N.A.	47.50
40-70	2715.78	N.A.	43.50
60-80	1149.59	N.A.	18.40
70-80	441.49	N.A.	7.10
80-90	224.07	N.A.	3.60
90-110	150.53	N.A.	2.40
90-120	175.71	N.A.	2.80
90-130	189.03	N.A.	3.00
90-150	199.02	N.A.	3.20
90-180	200.77	N.A.	3.20
110-180	50.25	N.A.	0.80
0-180	6249.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	197.92
10-20	568.28
20-30	863.03
30-40	1038.22
40-50	1065.53
50-60	942.15
60-70	708.09
70-80	441.49
80-90	224.07
90-100	101.60
100-110	48.93
110-120	25.19
120-130	13.32
130-140	6.82
140-150	3.18
150-160	1.36
160-170	0.39
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	20.9	22.5	21.3	22.9	23.3	22.9	24.5	23.3	24.9	25.3
	3H	22.1	23.6	22.6	23.9	24.4	24.9	26.3	25.3	26.7	27.2
	4H	22.5	23.8	22.9	24.2	24.7	25.8	27.1	26.2	27.5	28.0
	6H	22.7	23.9	23.1	24.4	24.8	26.5	27.8	27.0	28.2	28.7
	8H	22.7	23.9	23.2	24.4	24.8	26.9	28.1	27.4	28.6	29.0
	12H	22.7	23.9	23.2	24.3	24.8	27.3	28.4	27.8	28.9	29.4

UGR Viewed Endwise

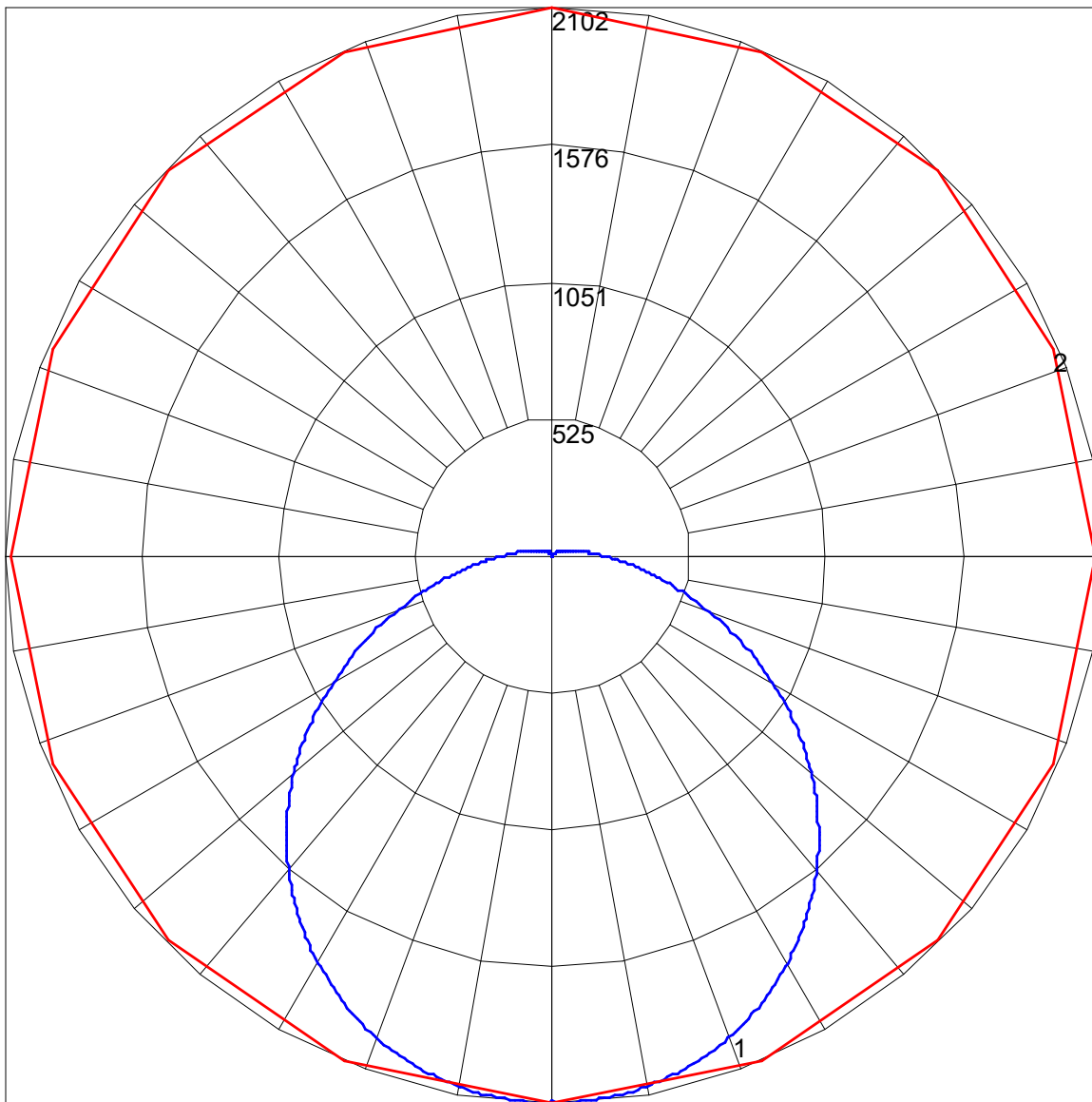
4H	2H	21.8	23.1	22.2	23.5	24.0	23.4	24.7	23.8	25.1	25.6
	3H	23.2	24.3	23.6	24.8	25.3	25.5	26.7	26.0	27.1	27.6
	4H	23.7	24.7	24.1	25.2	25.7	26.5	27.6	27.0	28.0	28.5
	6H	24.0	24.9	24.5	25.4	25.9	27.5	28.4	28.0	28.9	29.4
	8H	24.0	24.9	24.5	25.4	25.9	27.9	28.8	28.4	29.3	29.8
	12H	24.1	24.8	24.6	25.4	25.9	28.4	29.2	28.9	29.7	30.3

8H	4H	24.2	25.1	24.7	25.6	26.1	26.7	27.6	27.2	28.1	28.6
	6H	24.7	25.4	25.2	25.9	26.5	27.8	28.5	28.3	29.1	29.6
	8H	24.8	25.5	25.3	26.0	26.6	28.4	29.0	28.9	29.6	30.1
	12H	24.9	25.5	25.4	26.0	26.6	29.0	29.6	29.5	30.1	30.7

12H	4H	24.3	25.1	24.8	25.6	26.2	26.7	27.5	27.2	28.0	28.6
	6H	24.9	25.5	25.4	26.0	26.6	27.8	28.5	28.4	29.0	29.6
	8H	25.1	25.7	25.6	26.2	26.8	28.5	29.0	29.0	29.6	30.2

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 2101.881 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.)