



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL25 UV FR 930 @350MA.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 SEL25 UV FR 930

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 3000K

[BALLAST] One KTLD-25-UV-PS450-54-VDIM-LP2 LED driver set at 350mA

[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	2611
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	17.3
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	10123	9037	8803
55	8788	7973	7796
65	7040	6683	6542
75	5108	5331	5126
85	2940	4301	3886

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	320.14	N.A.	12.30
0-30	680.73	N.A.	26.10
0-40	1114.53	N.A.	42.70
0-60	1953.38	N.A.	74.80
0-80	2433.71	N.A.	93.20
0-90	2527.33	N.A.	96.80
10-90	2444.63	N.A.	93.60
20-40	794.39	N.A.	30.40
20-50	1239.59	N.A.	47.50
40-70	1134.72	N.A.	43.50
60-80	480.32	N.A.	18.40
70-80	184.47	N.A.	7.10
80-90	93.62	N.A.	3.60
90-110	62.89	N.A.	2.40
90-120	73.42	N.A.	2.80
90-130	78.98	N.A.	3.00
90-150	83.16	N.A.	3.20
90-180	83.89	N.A.	3.20
110-180	21.00	N.A.	0.80
0-180	2611.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.70
10-20	237.44
20-30	360.59
30-40	433.79
40-50	445.20
50-60	393.65
60-70	295.86
70-80	184.47
80-90	93.62
90-100	42.45
100-110	20.44
110-120	10.52
120-130	5.57
130-140	2.85
140-150	1.33
150-160	0.57
160-170	0.16
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	95	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	17.8	19.4	18.2	19.8	20.2	19.8	21.4	20.2	21.8	22.2
	3H	19.0	20.5	19.5	20.8	21.3	21.8	23.2	22.2	23.6	24.1
	4H	19.4	20.7	19.8	21.1	21.6	22.7	24.0	23.1	24.4	24.9
	6H	19.6	20.8	20.0	21.3	21.7	23.4	24.7	23.9	25.1	25.6
	8H	19.6	20.8	20.1	21.3	21.7	23.8	25.0	24.3	25.5	25.9
	12H	19.6	20.8	20.1	21.2	21.7	24.2	25.3	24.7	25.8	26.3

UGR Viewed Endwise

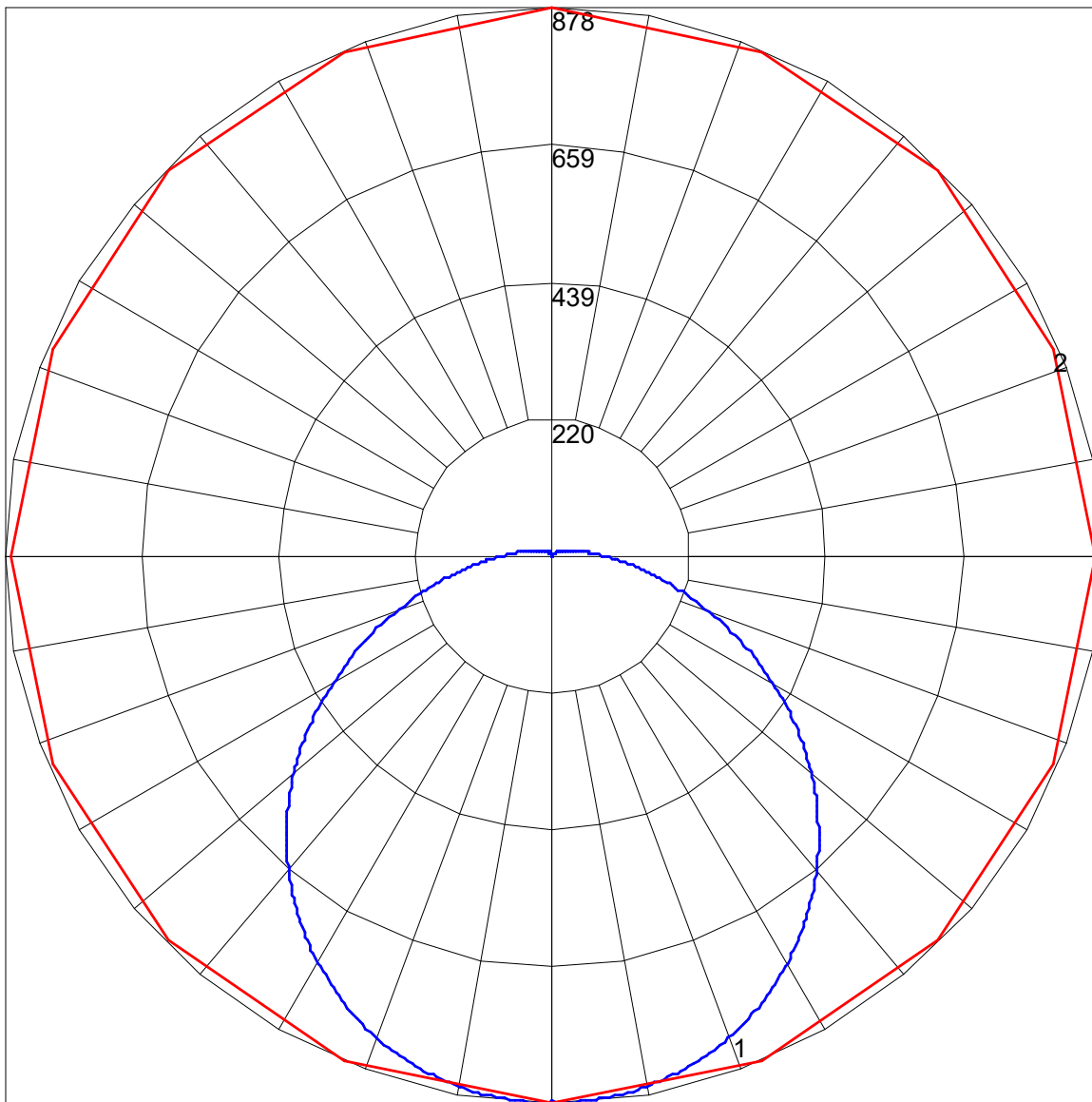
4H	2H	18.7	20.0	19.1	20.4	20.9	20.3	21.6	20.7	22.0	22.5
	3H	20.1	21.2	20.5	21.7	22.2	22.4	23.6	22.9	24.0	24.5
	4H	20.6	21.6	21.0	22.1	22.6	23.4	24.5	23.9	24.9	25.4
	6H	20.9	21.8	21.4	22.3	22.8	24.4	25.3	24.9	25.8	26.3
	8H	20.9	21.8	21.4	22.3	22.8	24.8	25.7	25.3	26.2	26.7
	12H	21.0	21.7	21.5	22.3	22.8	25.3	26.1	25.8	26.6	27.2

8H	4H	21.1	22.0	21.6	22.5	23.0	23.6	24.5	24.1	25.0	25.5
	6H	21.6	22.3	22.1	22.8	23.4	24.7	25.4	25.2	26.0	26.5
	8H	21.7	22.4	22.2	22.9	23.5	25.3	25.9	25.8	26.5	27.0
	12H	21.8	22.4	22.3	22.9	23.5	25.9	26.5	26.4	27.0	27.6

12H	4H	21.2	22.0	21.7	22.5	23.1	23.6	24.4	24.1	24.9	25.5
	6H	21.8	22.4	22.3	22.9	23.5	24.7	25.4	25.3	25.9	26.5
	8H	22.0	22.6	22.5	23.1	23.7	25.4	25.9	25.9	26.5	27.1

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 878.215 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.)