



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL25 UV FR 930 @400MA.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 400mA

[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	2987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	19.9
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	11580	10339	10071
55	10054	9122	8919
65	8054	7646	7484
75	5844	6099	5864
85	3364	4920	4445

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	366.24	N.A.	12.30
0-30	778.77	N.A.	26.10
0-40	1275.04	N.A.	42.70
0-60	2234.71	N.A.	74.80
0-80	2784.22	N.A.	93.20
0-90	2891.32	N.A.	96.80
10-90	2796.72	N.A.	93.60
20-40	908.80	N.A.	30.40
20-50	1418.12	N.A.	47.50
40-70	1298.14	N.A.	43.50
60-80	549.50	N.A.	18.40
70-80	211.03	N.A.	7.10
80-90	107.11	N.A.	3.60
90-110	71.95	N.A.	2.40
90-120	83.99	N.A.	2.80
90-130	90.36	N.A.	3.00
90-150	95.13	N.A.	3.20
90-180	95.97	N.A.	3.20
110-180	24.02	N.A.	0.80
0-180	2987.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.61
10-20	271.64
20-30	412.53
30-40	496.27
40-50	509.32
50-60	450.35
60-70	338.47
70-80	211.03
80-90	107.11
90-100	48.56
100-110	23.39
110-120	12.04
120-130	6.37
130-140	3.26
140-150	1.52
150-160	0.65
160-170	0.19
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	18.3	19.9	18.7	20.3	20.7	20.3	21.9	20.7	22.3	22.7
	3H	19.5	21.0	20.0	21.3	21.8	22.3	23.7	22.7	24.1	24.6
	4H	19.9	21.2	20.3	21.6	22.1	23.2	24.5	23.6	24.9	25.4
	6H	20.1	21.3	20.5	21.8	22.2	23.9	25.2	24.4	25.6	26.1
	8H	20.1	21.3	20.6	21.8	22.2	24.3	25.5	24.8	26.0	26.4
	12H	20.1	21.3	20.6	21.7	22.2	24.7	25.9	25.2	26.3	26.8

UGR Viewed Endwise

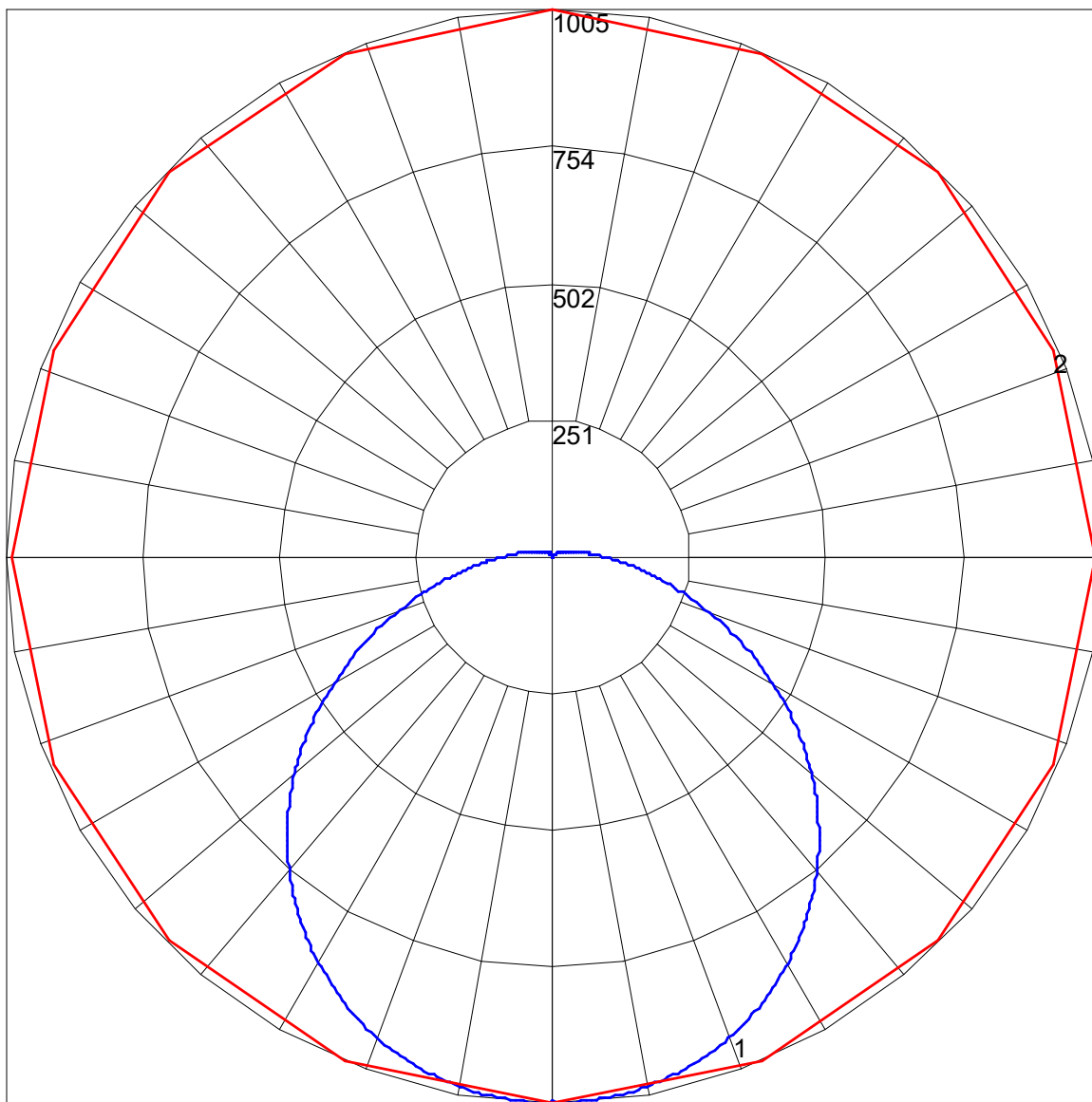
4H	2H	19.2	20.5	19.6	20.9	21.4	20.8	22.1	21.2	22.5	23.0
	3H	20.6	21.7	21.0	22.2	22.7	22.9	24.1	23.4	24.5	25.0
	4H	21.1	22.1	21.5	22.6	23.1	23.9	25.0	24.4	25.4	25.9
	6H	21.4	22.3	21.9	22.8	23.3	24.9	25.8	25.4	26.3	26.8
	8H	21.4	22.3	21.9	22.8	23.3	25.3	26.2	25.8	26.7	27.2
	12H	21.5	22.2	22.0	22.8	23.3	25.8	26.6	26.3	27.1	27.7

8H	4H	21.6	22.5	22.1	23.0	23.5	24.1	25.0	24.6	25.5	26.0
	6H	22.1	22.8	22.6	23.3	23.9	25.2	25.9	25.7	26.5	27.0
	8H	22.2	22.9	22.7	23.4	24.0	25.8	26.4	26.3	27.0	27.5
	12H	22.3	22.9	22.8	23.4	24.0	26.4	27.0	26.9	27.5	28.1

12H	4H	21.7	22.5	22.2	23.0	23.6	24.1	24.9	24.6	25.4	26.0
	6H	22.3	22.9	22.8	23.4	24.0	25.2	25.9	25.8	26.4	27.0
	8H	22.5	23.1	23.0	23.6	24.2	25.9	26.4	26.4	27.0	27.6

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1004.698 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.)