



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL35 UV FR 930 @500MA.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 SEL35 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-35-UV-PS650-54-VDIM-LM1 LED driver set at 500mA

[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	3735
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	24.2
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	14477	12925	12590
55	12569	11404	11151
65	10068	9559	9356
75	7306	7624	7331
85	4205	6151	5557

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	457.86	N.A.	12.30
0-30	973.59	N.A.	26.10
0-40	1594.00	N.A.	42.70
0-60	2793.74	N.A.	74.80
0-80	3480.7	N.A.	93.20
0-90	3614.6	N.A.	96.80
10-90	3496.33	N.A.	93.60
20-40	1136.14	N.A.	30.40
20-50	1772.87	N.A.	47.50
40-70	1622.88	N.A.	43.50
60-80	686.96	N.A.	18.40
70-80	263.82	N.A.	7.10
80-90	133.90	N.A.	3.60
90-110	89.95	N.A.	2.40
90-120	105.00	N.A.	2.80
90-130	112.96	N.A.	3.00
90-150	118.93	N.A.	3.20
90-180	119.98	N.A.	3.20
110-180	30.03	N.A.	0.80
0-180	3734.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.27
10-20	339.59
20-30	515.72
30-40	620.42
40-50	636.73
50-60	563.01
60-70	423.14
70-80	263.82
80-90	133.90
90-100	60.71
100-110	29.24
110-120	15.05
120-130	7.96
130-140	4.07
140-150	1.90
150-160	0.81
160-170	0.23
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

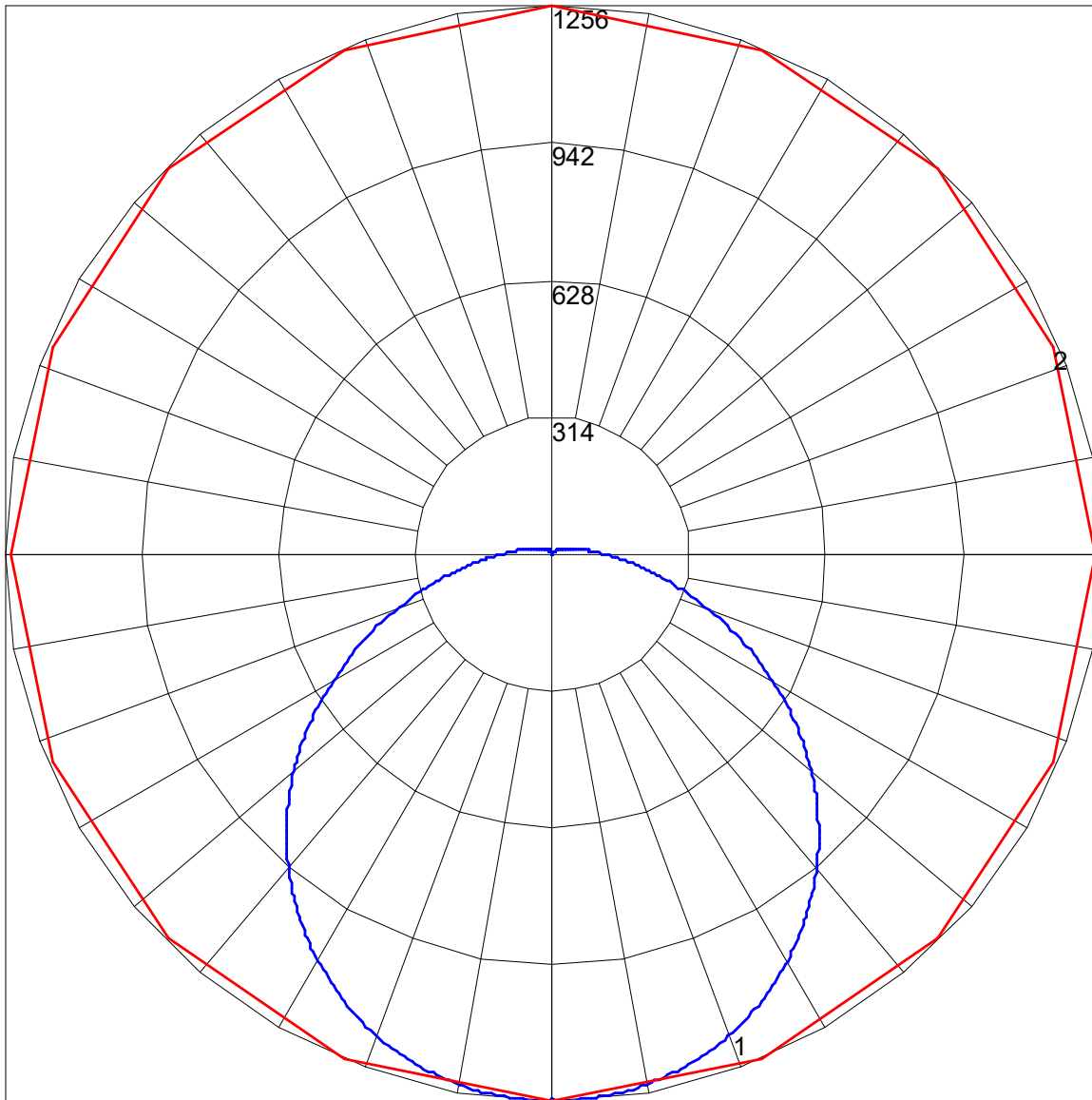
X=2H	Y=2H	19.1	20.7	19.5	21.1	21.5	21.1	22.7	21.5	23.1	23.5
	3H	20.3	21.8	20.8	22.1	22.6	23.1	24.5	23.5	24.9	25.4
	4H	20.7	22.0	21.1	22.4	22.9	24.0	25.3	24.4	25.7	26.2
	6H	20.9	22.1	21.3	22.6	23.0	24.7	26.0	25.2	26.4	26.9
	8H	20.9	22.1	21.4	22.6	23.0	25.1	26.3	25.6	26.8	27.2
	12H	20.9	22.1	21.4	22.5	23.0	25.5	26.6	26.0	27.1	27.6

UGR Viewed Endwise

4H	2H	20.0	21.3	20.4	21.7	22.2	21.6	22.9	22.0	23.3	23.8
	3H	21.4	22.5	21.8	23.0	23.5	23.7	24.9	24.2	25.3	25.8
	4H	21.9	22.9	22.3	23.4	23.9	24.7	25.8	25.2	26.2	26.7
	6H	22.2	23.1	22.7	23.6	24.1	25.7	26.6	26.2	27.1	27.6
	8H	22.2	23.1	22.7	23.6	24.1	26.1	27.0	26.6	27.5	28.0
	12H	22.3	23.0	22.8	23.6	24.1	26.6	27.4	27.1	27.9	28.5
8H	4H	22.4	23.3	22.9	23.8	24.3	24.9	25.8	25.4	26.3	26.8
	6H	22.9	23.6	23.4	24.1	24.7	26.0	26.7	26.5	27.3	27.8
	8H	23.0	23.7	23.5	24.2	24.8	26.6	27.2	27.1	27.8	28.3
	12H	23.1	23.7	23.6	24.2	24.8	27.2	27.8	27.7	28.3	28.9
12H	4H	22.5	23.3	23.0	23.8	24.4	24.9	25.7	25.4	26.2	26.8
	6H	23.1	23.7	23.6	24.2	24.8	26.0	26.7	26.6	27.2	27.8
	8H	23.3	23.9	23.8	24.4	25.0	26.7	27.2	27.2	27.8	28.4

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 1256.028 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.)