



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL35 UV FR 930 @550MA.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 550mA

[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	4105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	26.8
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	15912	14205	13837
55	13814	12533	12255
65	11066	10505	10283
75	8029	8379	8057
85	4622	6760	6108

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	503.22	N.A.	12.30
0-30	1070.03	N.A.	26.10
0-40	1751.91	N.A.	42.70
0-60	3070.49	N.A.	74.80
0-80	3825.51	N.A.	93.20
0-90	3972.67	N.A.	96.80
10-90	3842.68	N.A.	93.60
20-40	1248.69	N.A.	30.40
20-50	1948.5	N.A.	47.50
40-70	1783.64	N.A.	43.50
60-80	755.01	N.A.	18.40
70-80	289.96	N.A.	7.10
80-90	147.16	N.A.	3.60
90-110	98.86	N.A.	2.40
90-120	115.40	N.A.	2.80
90-130	124.15	N.A.	3.00
90-150	130.71	N.A.	3.20
90-180	131.86	N.A.	3.20
110-180	33.00	N.A.	0.80
0-180	4104.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.99
10-20	373.23
20-30	566.81
30-40	681.87
40-50	699.81
50-60	618.78
60-70	465.05
70-80	289.96
80-90	147.16
90-100	66.72
100-110	32.14
110-120	16.54
120-130	8.75
130-140	4.48
140-150	2.09
150-160	0.89
160-170	0.26
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	19.4	21.0	19.8	21.4	21.8	21.4	23.0	21.8	23.4	23.8
	3H	20.6	22.1	21.1	22.4	22.9	23.4	24.8	23.8	25.2	25.7
	4H	21.0	22.3	21.4	22.7	23.2	24.3	25.6	24.7	26.0	26.5
	6H	21.2	22.4	21.6	22.9	23.3	25.0	26.3	25.5	26.7	27.2
	8H	21.2	22.4	21.7	22.9	23.3	25.4	26.6	25.9	27.1	27.5
	12H	21.2	22.4	21.7	22.8	23.3	25.8	26.9	26.3	27.4	27.9

UGR Viewed Endwise

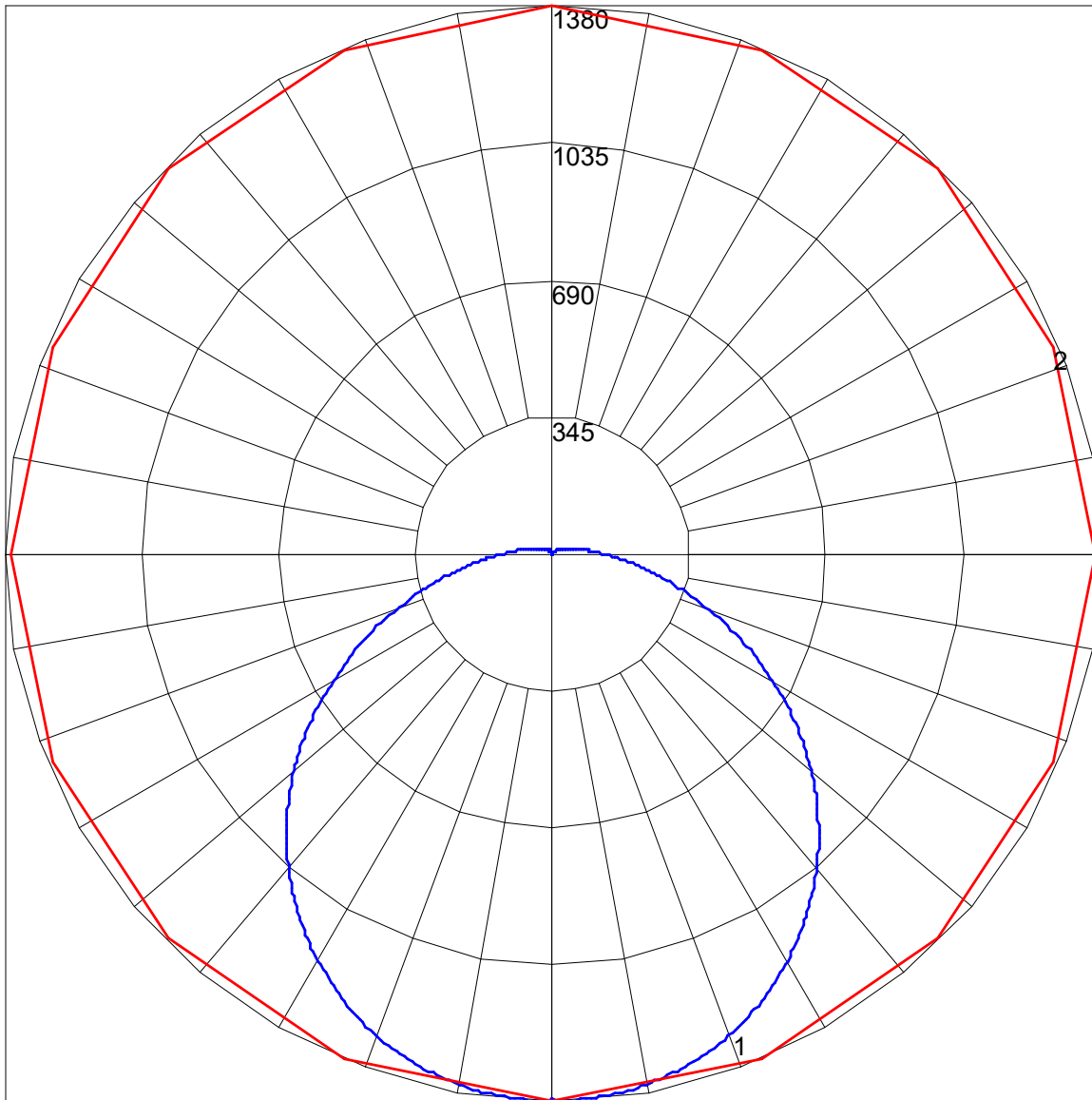
4H	2H	20.3	21.6	20.7	22.0	22.5	21.9	23.2	22.3	23.6	24.1
	3H	21.7	22.8	22.1	23.3	23.8	24.0	25.2	24.5	25.6	26.1
	4H	22.2	23.2	22.6	23.7	24.2	25.0	26.1	25.5	26.5	27.0
	6H	22.5	23.4	23.0	23.9	24.4	26.0	26.9	26.5	27.4	27.9
	8H	22.5	23.4	23.0	23.9	24.4	26.4	27.3	26.9	27.8	28.3
	12H	22.6	23.3	23.1	23.9	24.4	26.9	27.7	27.4	28.2	28.8

8H	4H	22.7	23.6	23.2	24.1	24.6	25.2	26.1	25.7	26.6	27.1
	6H	23.2	23.9	23.7	24.4	25.0	26.3	27.0	26.8	27.6	28.1
	8H	23.3	24.0	23.8	24.5	25.1	26.9	27.5	27.4	28.1	28.6
	12H	23.4	24.0	23.9	24.5	25.1	27.5	28.1	28.0	28.6	29.2

12H	4H	22.8	23.6	23.3	24.1	24.7	25.2	26.0	25.7	26.5	27.1
	6H	23.4	24.0	23.9	24.5	25.1	26.3	27.0	26.9	27.5	28.1
	8H	23.6	24.2	24.1	24.7	25.3	27.0	27.5	27.5	28.1	28.7

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 1380.453 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.)