



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL15 UV FR 930 @230MA.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 SEL15 UV FR 930

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 28 LED boards, 3000K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set at 230mA

[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	1502
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	10.3
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	5821	5197	5062
55	5054	4585	4483
65	4048	3843	3762
75	2937	3065	2947
85	1691	2473	2234

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	184.09	N.A.	12.30
0-30	391.44	N.A.	26.10
0-40	640.89	N.A.	42.70
0-60	1123.25	N.A.	74.80
0-80	1399.46	N.A.	93.20
0-90	1453.29	N.A.	96.80
10-90	1405.74	N.A.	93.60
20-40	456.80	N.A.	30.40
20-50	712.80	N.A.	47.50
40-70	652.50	N.A.	43.50
60-80	276.20	N.A.	18.40
70-80	106.07	N.A.	7.10
80-90	53.84	N.A.	3.60
90-110	36.17	N.A.	2.40
90-120	42.22	N.A.	2.80
90-130	45.42	N.A.	3.00
90-150	47.82	N.A.	3.20
90-180	48.24	N.A.	3.20
110-180	12.07	N.A.	0.80
0-180	1501.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.55
10-20	136.54
20-30	207.35
30-40	249.45
40-50	256.01
50-60	226.36
60-70	170.13
70-80	106.07
80-90	53.84
90-100	24.41
100-110	11.76
110-120	6.05
120-130	3.20
130-140	1.64
140-150	0.76
150-160	0.33
160-170	0.09
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

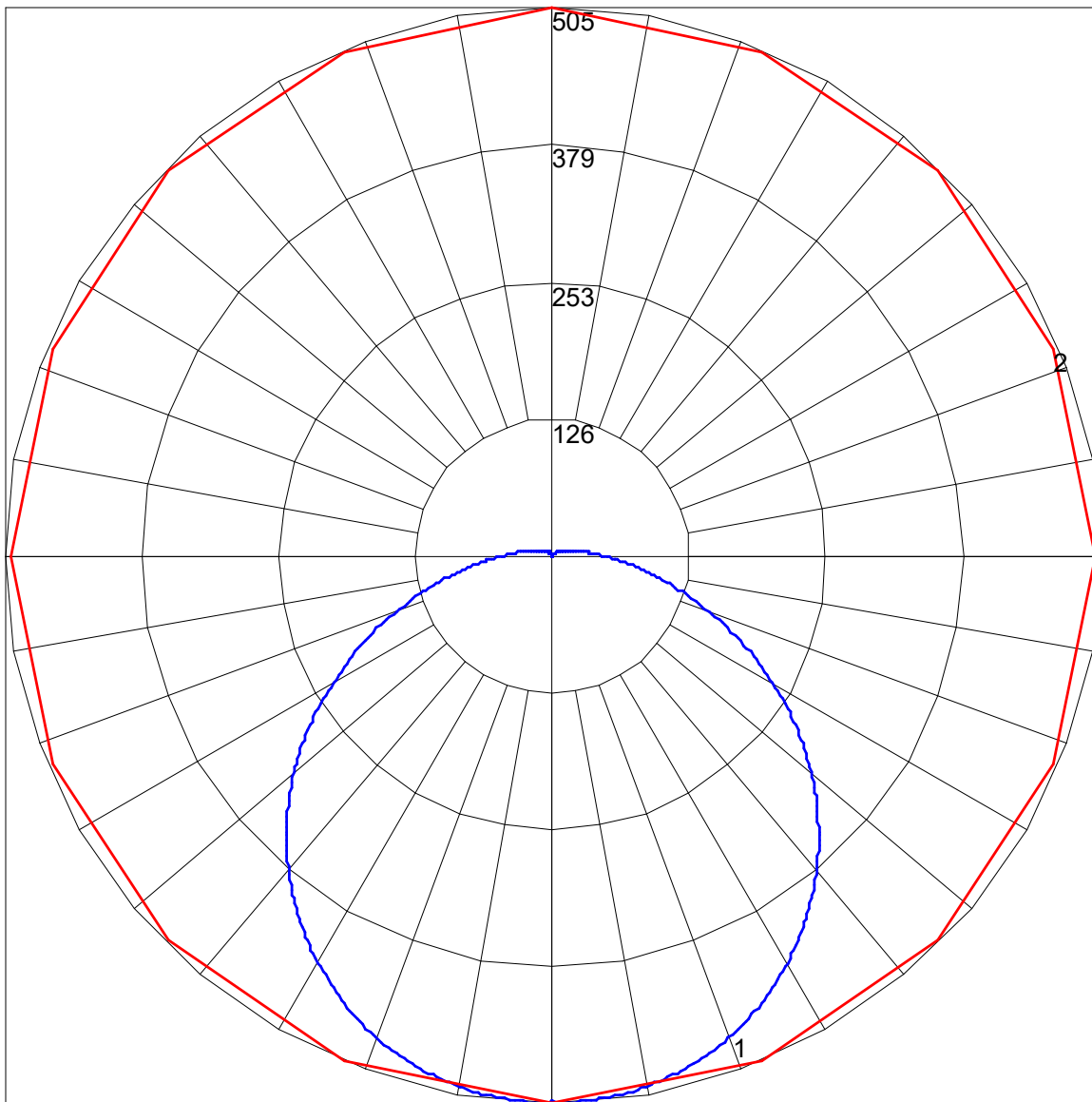
X=2H	Y=2H	15.9	17.5	16.3	17.9	18.3	17.9	19.5	18.3	19.9	20.3
	3H	17.1	18.6	17.6	18.9	19.4	19.9	21.3	20.3	21.7	22.2
	4H	17.5	18.8	17.9	19.2	19.7	20.8	22.1	21.2	22.5	23.0
	6H	17.7	18.9	18.1	19.4	19.8	21.5	22.8	22.0	23.2	23.7
	8H	17.7	18.9	18.2	19.4	19.8	21.9	23.1	22.4	23.6	24.0
	12H	17.7	18.9	18.2	19.3	19.8	22.3	23.4	22.8	23.9	24.4

### UGR Viewed Endwise

4H	2H	16.8	18.1	17.2	18.5	19.0	18.4	19.7	18.8	20.1	20.6
	3H	18.2	19.3	18.6	19.8	20.3	20.5	21.7	21.0	22.1	22.6
	4H	18.7	19.7	19.1	20.2	20.7	21.5	22.6	22.0	23.0	23.5
	6H	19.0	19.9	19.5	20.4	20.9	22.5	23.4	23.0	23.9	24.4
	8H	19.0	19.9	19.5	20.4	20.9	22.9	23.8	23.4	24.3	24.8
	12H	19.1	19.8	19.6	20.4	20.9	23.4	24.2	23.9	24.7	25.3
8H	4H	19.2	20.1	19.7	20.6	21.1	21.7	22.6	22.2	23.1	23.6
	6H	19.7	20.4	20.2	20.9	21.5	22.8	23.5	23.3	24.1	24.6
	8H	19.8	20.5	20.3	21.0	21.6	23.4	24.0	23.9	24.6	25.1
	12H	19.9	20.5	20.4	21.0	21.6	24.0	24.6	24.5	25.1	25.7
12H	4H	19.3	20.1	19.8	20.6	21.2	21.7	22.5	22.2	23.0	23.6
	6H	19.9	20.5	20.4	21.0	21.6	22.8	23.5	23.4	24.0	24.6
	8H	20.1	20.7	20.6	21.2	21.8	23.5	24.0	24.0	24.6	25.2

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 505 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.)