



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL25 UV FR 930 @300MA.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 300mA

[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	2234
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	14.8
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	8662	7733	7533
55	7520	6823	6672
65	6024	5719	5598
75	4371	4562	4386
85	2516	3680	3325

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	273.95	N.A.	12.30
0-30	582.51	N.A.	26.10
0-40	953.72	N.A.	42.70
0-60	1671.54	N.A.	74.80
0-80	2082.56	N.A.	93.20
0-90	2162.68	N.A.	96.80
10-90	2091.91	N.A.	93.60
20-40	679.77	N.A.	30.40
20-50	1060.74	N.A.	47.50
40-70	970.99	N.A.	43.50
60-80	411.02	N.A.	18.40
70-80	157.85	N.A.	7.10
80-90	80.11	N.A.	3.60
90-110	53.82	N.A.	2.40
90-120	62.82	N.A.	2.80
90-130	67.59	N.A.	3.00
90-150	71.16	N.A.	3.20
90-180	71.78	N.A.	3.20
110-180	17.97	N.A.	0.80
0-180	2234.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.76
10-20	203.18
20-30	308.57
30-40	371.21
40-50	380.97
50-60	336.86
60-70	253.17
70-80	157.85
80-90	80.11
90-100	36.32
100-110	17.49
110-120	9.01
120-130	4.76
130-140	2.44
140-150	1.14
150-160	0.49
160-170	0.14
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	17.3	18.9	17.7	19.3	19.7	19.3	20.9	19.7	21.3	21.7
	3H	18.5	20.0	19.0	20.3	20.8	21.3	22.7	21.7	23.1	23.6
	4H	18.9	20.2	19.3	20.6	21.1	22.2	23.5	22.6	23.9	24.4
	6H	19.1	20.3	19.5	20.8	21.2	22.9	24.2	23.4	24.6	25.1
	8H	19.1	20.3	19.6	20.8	21.2	23.3	24.5	23.8	25.0	25.4
	12H	19.1	20.3	19.6	20.7	21.2	23.7	24.9	24.2	25.3	25.8

### UGR Viewed Endwise

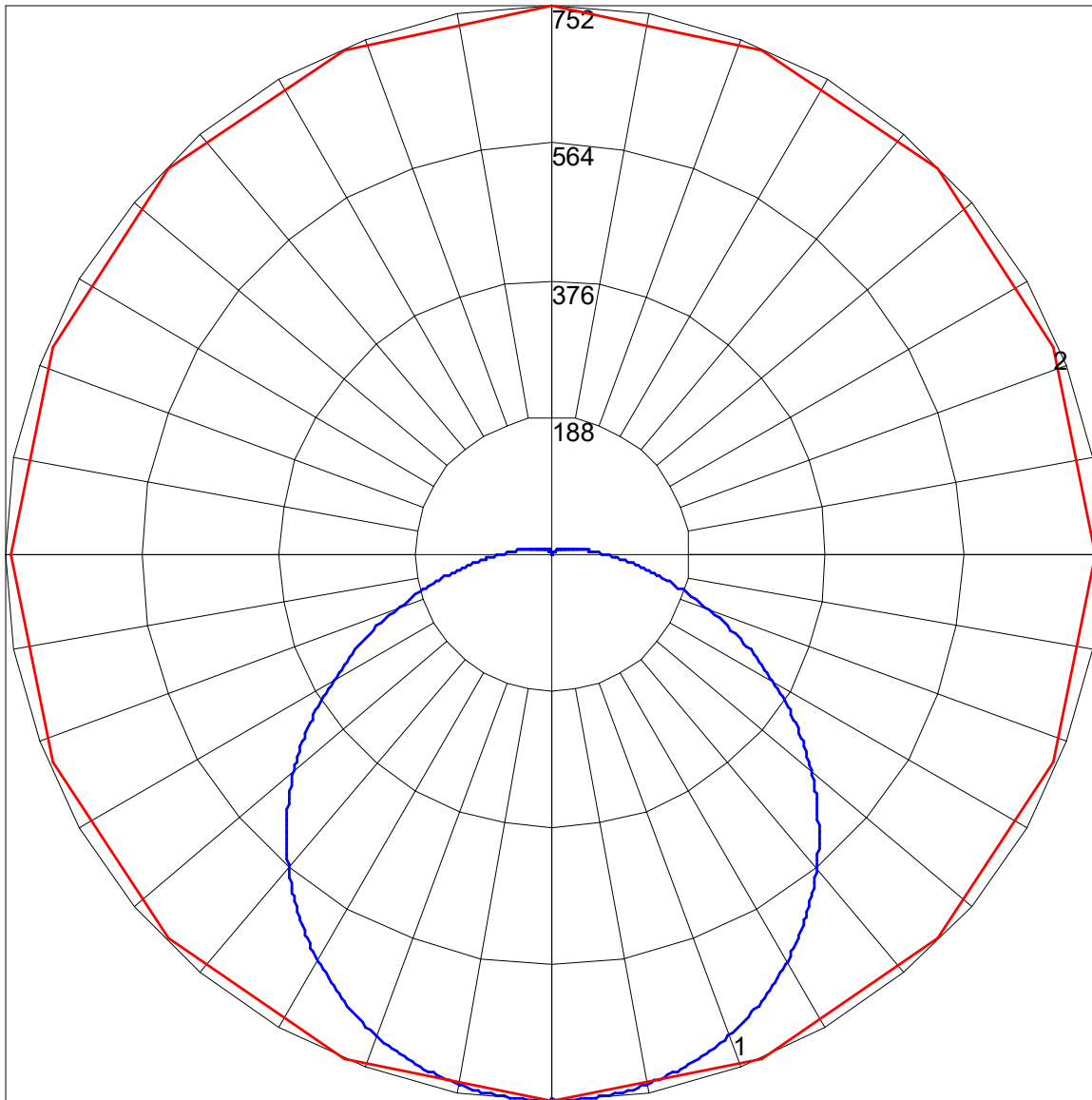
4H	2H	18.2	19.5	18.6	19.9	20.4	19.8	21.1	20.2	21.5	22.0
	3H	19.6	20.7	20.0	21.2	21.7	21.9	23.1	22.4	23.5	24.0
	4H	20.1	21.1	20.5	21.6	22.1	22.9	24.0	23.4	24.4	24.9
	6H	20.4	21.3	20.9	21.8	22.3	23.9	24.8	24.4	25.3	25.8
	8H	20.4	21.3	20.9	21.8	22.3	24.3	25.2	24.8	25.7	26.2
	12H	20.5	21.2	21.0	21.8	22.3	24.8	25.6	25.3	26.1	26.7

8H	4H	20.6	21.5	21.1	22.0	22.5	23.1	24.0	23.6	24.5	25.0
	6H	21.1	21.8	21.6	22.3	22.9	24.2	24.9	24.7	25.5	26.0
	8H	21.2	21.9	21.7	22.4	23.0	24.8	25.4	25.3	26.0	26.5
	12H	21.3	21.9	21.8	22.4	23.0	25.4	26.0	26.0	26.5	27.1

12H	4H	20.7	21.5	21.2	22.0	22.6	23.1	23.9	23.6	24.4	25.0
	6H	21.3	21.9	21.8	22.4	23.0	24.2	24.9	24.8	25.4	26.0
	8H	21.5	22.1	22.0	22.6	23.2	24.9	25.4	25.4	26.0	26.6

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 751.503 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.)