



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL15 UV FR 940 @200MA.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 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 28 LED boards, 4000K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set at 200mA

[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	1341
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	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	5198	4640	4520
55	4513	4094	4003
65	3615	3432	3359
75	2623	2737	2632
85	1510	2208	1995

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	164.38	N.A.	12.30
0-30	349.54	N.A.	26.10
0-40	572.28	N.A.	42.70
0-60	1003.02	N.A.	74.80
0-80	1249.65	N.A.	93.20
0-90	1297.73	N.A.	96.80
10-90	1255.27	N.A.	93.60
20-40	407.90	N.A.	30.40
20-50	636.50	N.A.	47.50
40-70	582.65	N.A.	43.50
60-80	246.64	N.A.	18.40
70-80	94.72	N.A.	7.10
80-90	48.07	N.A.	3.60
90-110	32.29	N.A.	2.40
90-120	37.70	N.A.	2.80
90-130	40.56	N.A.	3.00
90-150	42.70	N.A.	3.20
90-180	43.07	N.A.	3.20
110-180	10.78	N.A.	0.80
0-180	1340.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	42.46
10-20	121.92
20-30	185.16
30-40	222.74
40-50	228.60
50-60	202.13
60-70	151.92
70-80	94.72
80-90	48.07
90-100	21.80
100-110	10.50
110-120	5.40
120-130	2.86
130-140	1.46
140-150	0.68
150-160	0.29
160-170	0.08
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	15.5	17.1	15.9	17.5	17.9	17.5	19.1	17.9	19.5	19.9
	3H	16.7	18.2	17.2	18.5	19.0	19.5	20.9	19.9	21.3	21.8
	4H	17.1	18.4	17.5	18.8	19.3	20.4	21.7	20.8	22.1	22.6
	6H	17.3	18.5	17.7	19.0	19.4	21.1	22.4	21.6	22.8	23.3
	8H	17.3	18.5	17.8	19.0	19.4	21.5	22.7	22.0	23.2	23.6
	12H	17.3	18.5	17.8	18.9	19.4	21.9	23.0	22.4	23.5	24.0

### UGR Viewed Endwise

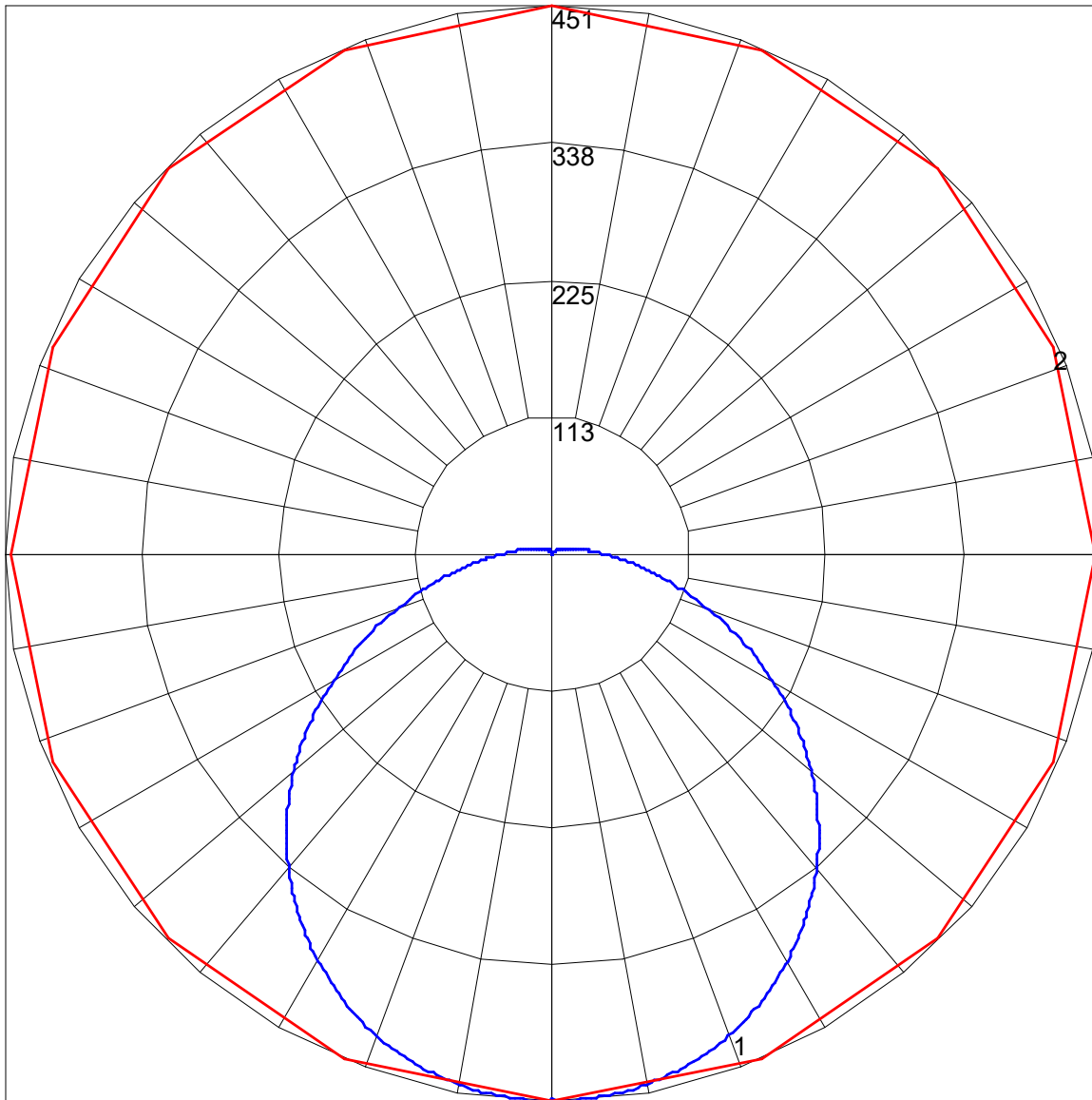
4H	2H	16.4	17.7	16.8	18.1	18.6	18.0	19.3	18.4	19.7	20.2
	3H	17.8	18.9	18.2	19.4	19.9	20.1	21.3	20.6	21.7	22.2
	4H	18.3	19.3	18.7	19.8	20.3	21.1	22.2	21.6	22.6	23.1
	6H	18.6	19.5	19.1	20.0	20.5	22.1	23.0	22.6	23.5	24.0
	8H	18.6	19.5	19.1	20.0	20.5	22.5	23.4	23.0	23.9	24.4
	12H	18.7	19.4	19.2	20.0	20.5	23.0	23.8	23.5	24.3	24.9

8H	4H	18.8	19.7	19.3	20.2	20.7	21.3	22.2	21.8	22.7	23.2
	6H	19.3	20.0	19.8	20.5	21.1	22.4	23.1	22.9	23.7	24.2
	8H	19.4	20.1	19.9	20.6	21.2	23.0	23.6	23.5	24.2	24.7
	12H	19.5	20.1	20.0	20.6	21.2	23.6	24.2	24.1	24.7	25.3

12H	4H	18.9	19.7	19.4	20.2	20.8	21.3	22.1	21.8	22.6	23.2
	6H	19.5	20.1	20.0	20.6	21.2	22.4	23.1	23.0	23.6	24.2
	8H	19.7	20.3	20.2	20.8	21.4	23.1	23.6	23.6	24.2	24.8

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 450.944 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.)