



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL25 UV FR 940 @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 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[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	2297
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	8905	7950	7744
55	7731	7014	6859
65	6193	5880	5755
75	4494	4690	4509
85	2587	3784	3418

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	281.64	N.A.	12.30
0-30	598.86	N.A.	26.10
0-40	980.49	N.A.	42.70
0-60	1718.46	N.A.	74.80
0-80	2141.01	N.A.	93.20
0-90	2223.38	N.A.	96.80
10-90	2150.63	N.A.	93.60
20-40	698.85	N.A.	30.40
20-50	1090.51	N.A.	47.50
40-70	998.25	N.A.	43.50
60-80	422.56	N.A.	18.40
70-80	162.28	N.A.	7.10
80-90	82.36	N.A.	3.60
90-110	55.33	N.A.	2.40
90-120	64.59	N.A.	2.80
90-130	69.48	N.A.	3.00
90-150	73.16	N.A.	3.20
90-180	73.80	N.A.	3.20
110-180	18.47	N.A.	0.80
0-180	2297.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	72.75
10-20	208.89
20-30	317.23
30-40	381.62
40-50	391.66
50-60	346.31
60-70	260.28
70-80	162.28
80-90	82.36
90-100	37.34
100-110	17.99
110-120	9.26
120-130	4.90
130-140	2.51
140-150	1.17
150-160	0.50
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

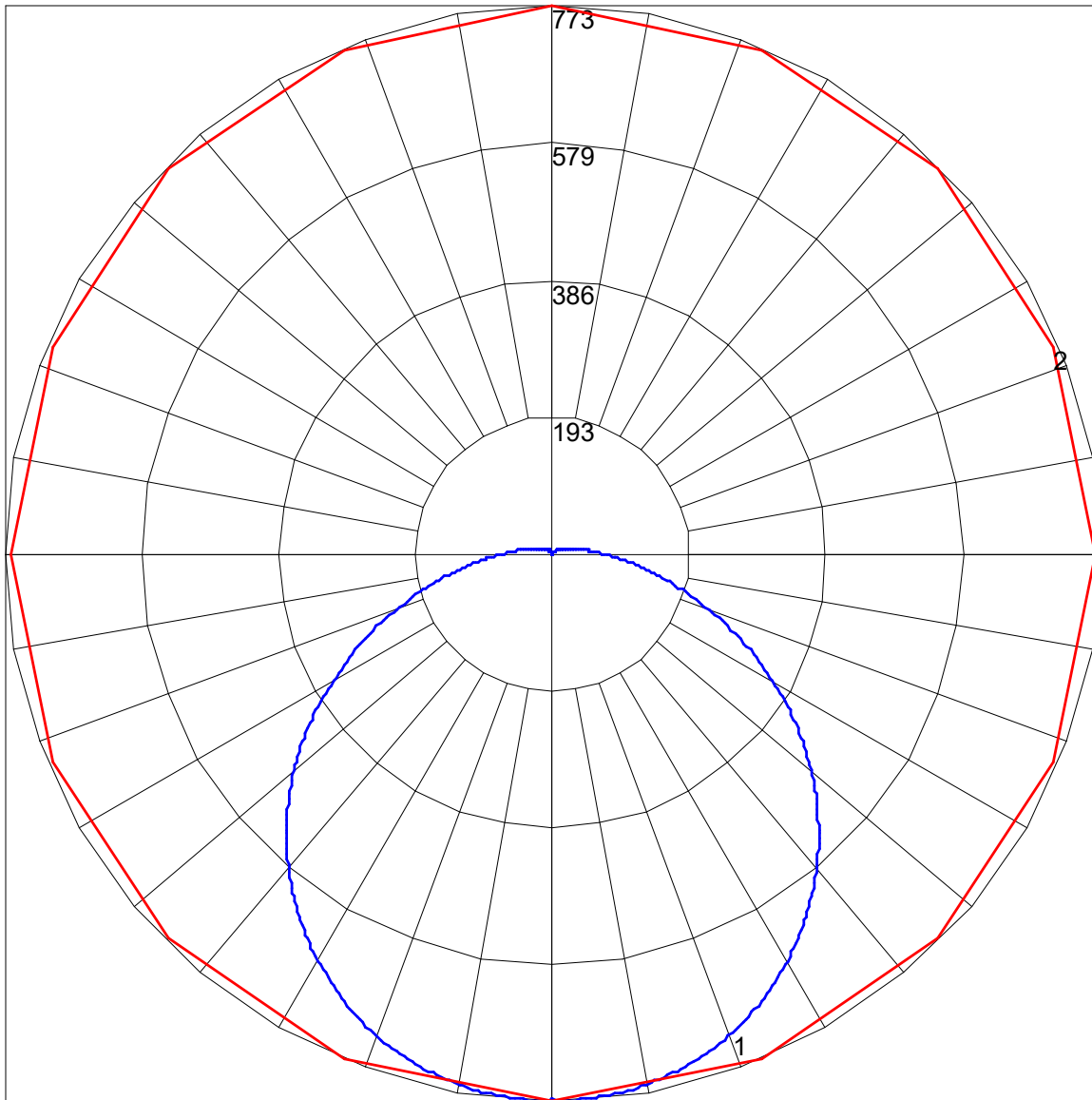
X=2H	Y=2H	17.4	19.0	17.8	19.4	19.8	19.4	21.0	19.8	21.4	21.8
	3H	18.6	20.1	19.1	20.4	20.9	21.4	22.8	21.8	23.2	23.7
	4H	19.0	20.3	19.4	20.7	21.2	22.3	23.6	22.7	24.0	24.5
	6H	19.2	20.4	19.6	20.9	21.3	23.0	24.3	23.5	24.7	25.2
	8H	19.2	20.4	19.7	20.9	21.3	23.4	24.6	23.9	25.1	25.5
	12H	19.2	20.4	19.7	20.8	21.3	23.8	25.0	24.3	25.4	25.9

### UGR Viewed Endwise

4H	2H	18.3	19.6	18.7	20.0	20.5	19.9	21.2	20.3	21.6	22.1
	3H	19.7	20.8	20.1	21.3	21.8	22.0	23.2	22.5	23.6	24.1
	4H	20.2	21.2	20.6	21.7	22.2	23.0	24.1	23.5	24.5	25.0
	6H	20.5	21.4	21.0	21.9	22.4	24.0	24.9	24.5	25.4	25.9
	8H	20.5	21.4	21.0	21.9	22.4	24.4	25.3	24.9	25.8	26.3
	12H	20.6	21.3	21.1	21.9	22.4	24.9	25.7	25.4	26.2	26.8
8H	4H	20.7	21.6	21.2	22.1	22.6	23.2	24.1	23.7	24.6	25.1
	6H	21.2	21.9	21.7	22.4	23.0	24.3	25.0	24.8	25.6	26.1
	8H	21.3	22.0	21.8	22.5	23.1	24.9	25.5	25.4	26.1	26.6
	12H	21.4	22.0	21.9	22.5	23.1	25.5	26.1	26.1	26.6	27.2
12H	4H	20.8	21.6	21.3	22.1	22.7	23.2	24.0	23.7	24.5	25.1
	6H	21.4	22.0	21.9	22.5	23.1	24.3	25.0	24.9	25.5	26.1
	8H	21.6	22.2	22.1	22.7	23.3	25.0	25.5	25.5	26.1	26.7

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 772.595 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.)