



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL25 UV FR 940 @450MA.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 450mA

[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	3456
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	22.5
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	13399	11962	11652
55	11633	10554	10320
65	9318	8846	8659
75	6761	7056	6785
85	3892	5693	5143

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	423.75	N.A.	12.30
0-30	901.06	N.A.	26.10
0-40	1475.25	N.A.	42.70
0-60	2585.61	N.A.	74.80
0-80	3221.4	N.A.	93.20
0-90	3345.32	N.A.	96.80
10-90	3235.86	N.A.	93.60
20-40	1051.5	N.A.	30.40
20-50	1640.8	N.A.	47.50
40-70	1501.98	N.A.	43.50
60-80	635.79	N.A.	18.40
70-80	244.17	N.A.	7.10
80-90	123.92	N.A.	3.60
90-110	83.25	N.A.	2.40
90-120	97.18	N.A.	2.80
90-130	104.55	N.A.	3.00
90-150	110.07	N.A.	3.20
90-180	111.04	N.A.	3.20
110-180	27.79	N.A.	0.80
0-180	3456.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.46
10-20	314.29
20-30	477.30
30-40	574.20
40-50	589.30
50-60	521.06
60-70	391.61
70-80	244.17
80-90	123.92
90-100	56.19
100-110	27.06
110-120	13.93
120-130	7.37
130-140	3.77
140-150	1.76
150-160	0.75
160-170	0.22
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

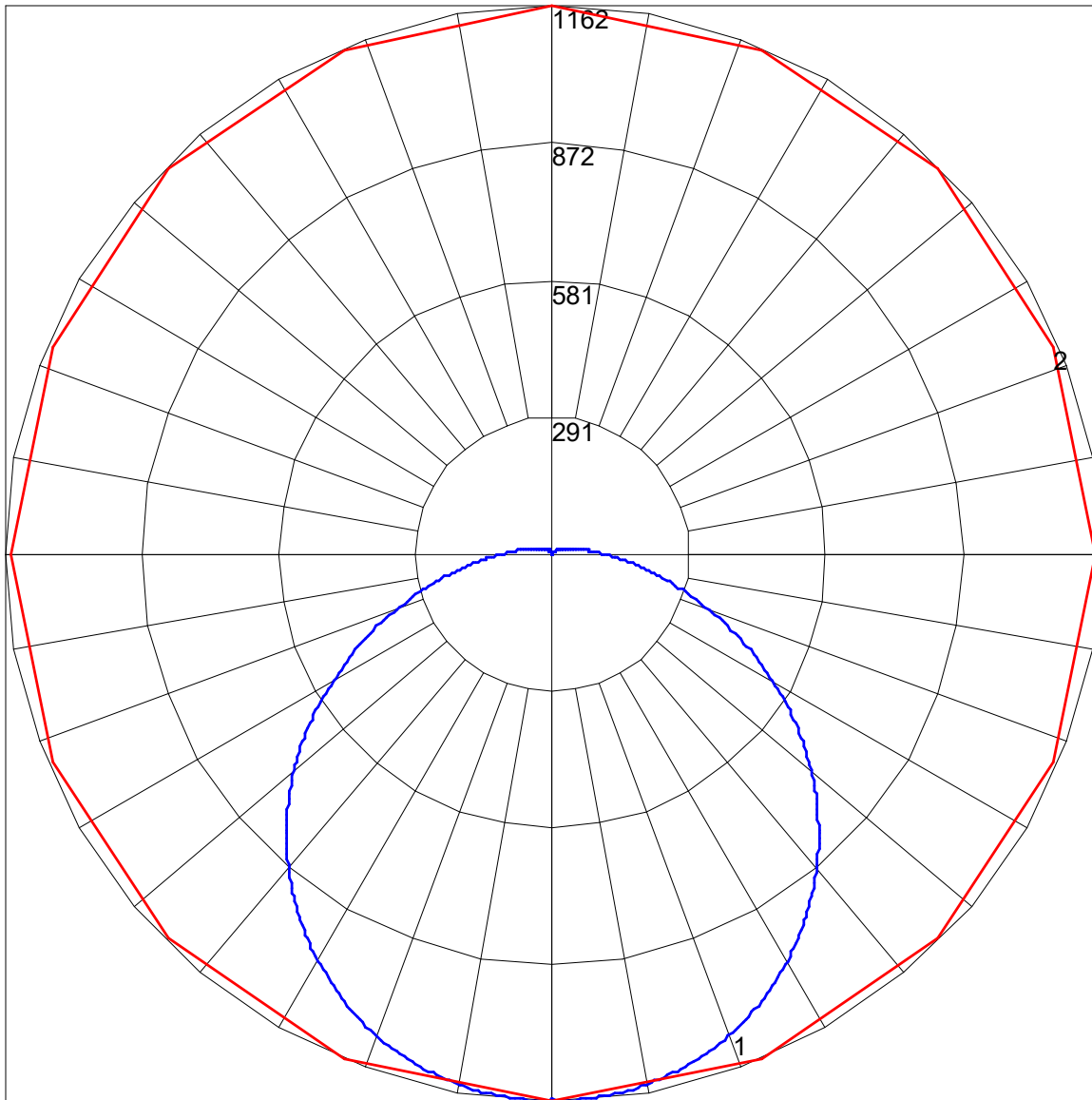
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	18.8	20.4	19.2	20.8	21.2	20.8	22.4	21.2	22.8	23.2
	3H	20.0	21.5	20.5	21.8	22.3	22.8	24.2	23.2	24.6	25.1
	4H	20.4	21.7	20.8	22.1	22.6	23.7	25.0	24.1	25.4	25.9
	6H	20.6	21.8	21.0	22.3	22.7	24.4	25.7	24.9	26.1	26.6
	8H	20.6	21.8	21.1	22.3	22.7	24.8	26.0	25.3	26.5	26.9
	12H	20.6	21.8	21.1	22.2	22.7	25.2	26.3	25.7	26.8	27.3
4H	2H	19.7	21.0	20.1	21.4	21.9	21.3	22.6	21.7	23.0	23.5
	3H	21.1	22.2	21.5	22.7	23.2	23.4	24.6	23.9	25.0	25.5
	4H	21.6	22.6	22.0	23.1	23.6	24.4	25.5	24.9	25.9	26.4
	6H	21.9	22.8	22.4	23.3	23.8	25.4	26.3	25.9	26.8	27.3
	8H	21.9	22.8	22.4	23.3	23.8	25.8	26.7	26.3	27.2	27.7
	12H	22.0	22.7	22.5	23.3	23.8	26.3	27.1	26.8	27.6	28.2
8H	4H	22.1	23.0	22.6	23.5	24.0	24.6	25.5	25.1	26.0	26.5
	6H	22.6	23.3	23.1	23.8	24.4	25.7	26.4	26.2	27.0	27.5
	8H	22.7	23.4	23.2	23.9	24.5	26.3	26.9	26.8	27.5	28.0
	12H	22.8	23.4	23.3	23.9	24.5	26.9	27.5	27.4	28.0	28.6
12H	4H	22.2	23.0	22.7	23.5	24.1	24.6	25.4	25.1	25.9	26.5
	6H	22.8	23.4	23.3	23.9	24.5	25.7	26.4	26.3	26.9	27.5
	8H	23.0	23.6	23.5	24.1	24.7	26.4	26.9	26.9	27.5	28.1

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 1162.458 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.)