



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL35 UV FR 935 @650MA.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 SEL35 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 3500K

[BALLAST] One KTLD-35-UV-PS650-54-VDIM-LM1 LED driver set at 650mA

[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	4853
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	31.9
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	18814	16796	16361
55	16334	14819	14491
65	13084	12422	12159
75	9494	9908	9527
85	5465	7994	7222

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	595.01	N.A.	12.30
0-30	1265.22	N.A.	26.10
0-40	2071.47	N.A.	42.70
0-60	3630.58	N.A.	74.80
0-80	4523.32	N.A.	93.20
0-90	4697.32	N.A.	96.80
10-90	4543.63	N.A.	93.60
20-40	1476.46	N.A.	30.40
20-50	2303.92	N.A.	47.50
40-70	2108.99	N.A.	43.50
60-80	892.74	N.A.	18.40
70-80	342.85	N.A.	7.10
80-90	174.01	N.A.	3.60
90-110	116.89	N.A.	2.40
90-120	136.45	N.A.	2.80
90-130	146.80	N.A.	3.00
90-150	154.56	N.A.	3.20
90-180	155.92	N.A.	3.20
110-180	39.02	N.A.	0.80
0-180	4853.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.70
10-20	441.31
20-30	670.20
30-40	806.26
40-50	827.46
50-60	731.65
60-70	549.88
70-80	342.85
80-90	174.01
90-100	78.90
100-110	38.00
110-120	19.56
120-130	10.34
130-140	5.29
140-150	2.47
150-160	1.06
160-170	0.30
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

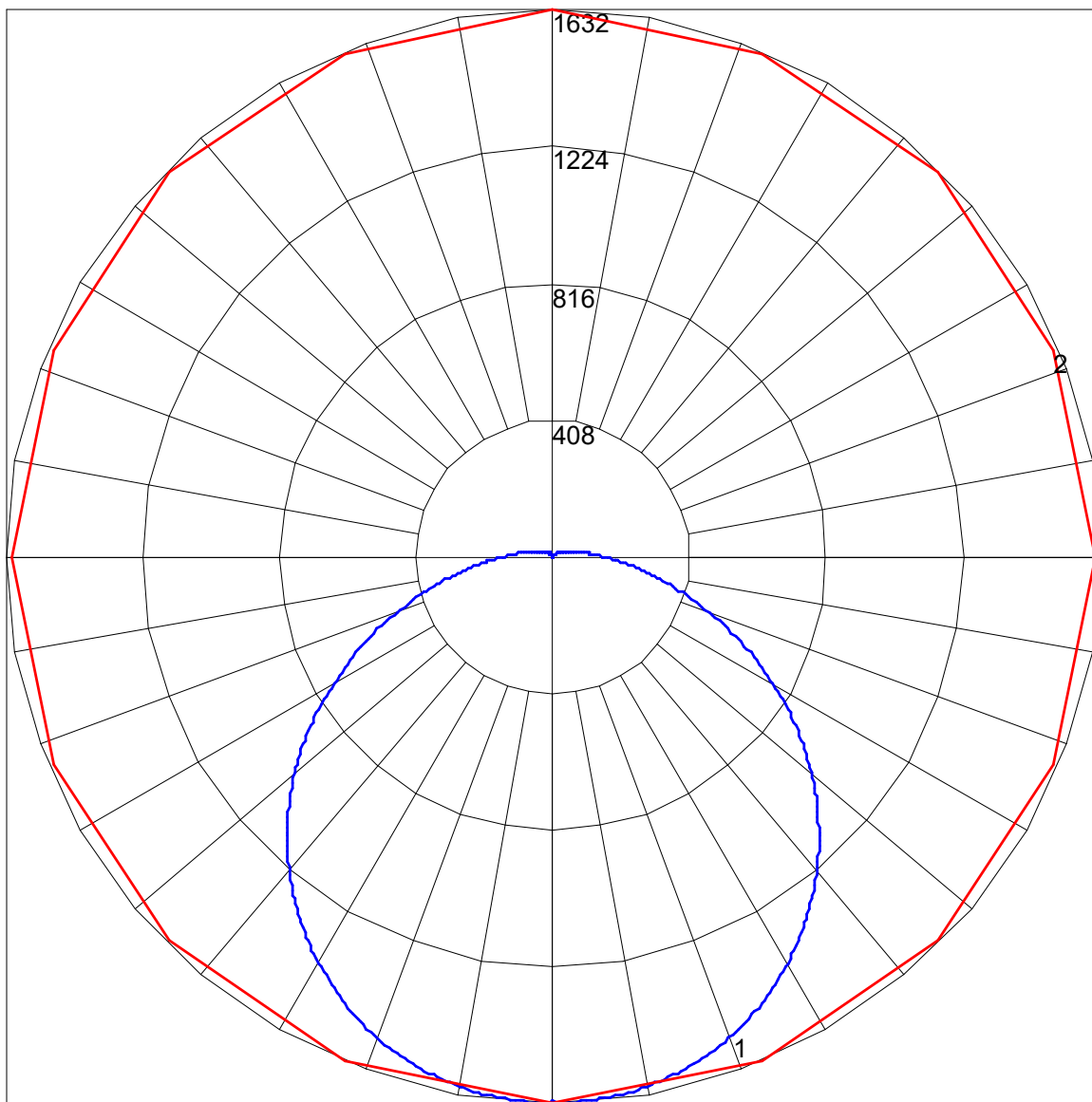
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	20.0	21.6	20.4	22.0	22.4	22.0	23.6	22.4	24.0	24.4
	3H	21.2	22.7	21.7	23.0	23.5	24.0	25.4	24.4	25.8	26.3
	4H	21.6	22.9	22.0	23.3	23.8	24.9	26.2	25.3	26.6	27.1
	6H	21.8	23.0	22.2	23.5	23.9	25.6	26.9	26.1	27.3	27.8
	8H	21.8	23.0	22.3	23.5	23.9	26.0	27.2	26.5	27.7	28.1
	12H	21.8	23.0	22.3	23.4	23.9	26.4	27.5	26.9	28.0	28.5
4H	2H	20.9	22.2	21.3	22.6	23.1	22.5	23.8	22.9	24.2	24.7
	3H	22.3	23.4	22.7	23.9	24.4	24.6	25.8	25.1	26.2	26.7
	4H	22.8	23.8	23.2	24.3	24.8	25.6	26.7	26.1	27.1	27.6
	6H	23.1	24.0	23.6	24.5	25.0	26.6	27.5	27.1	28.0	28.5
	8H	23.1	24.0	23.6	24.5	25.0	27.0	27.9	27.5	28.4	28.9
	12H	23.2	23.9	23.7	24.5	25.0	27.5	28.3	28.0	28.8	29.4
8H	4H	23.3	24.2	23.8	24.7	25.2	25.8	26.7	26.3	27.2	27.7
	6H	23.8	24.5	24.3	25.0	25.6	26.9	27.6	27.4	28.2	28.7
	8H	23.9	24.6	24.4	25.1	25.7	27.5	28.1	28.0	28.7	29.2
	12H	24.0	24.6	24.5	25.1	25.7	28.1	28.7	28.6	29.2	29.8
12H	4H	23.4	24.2	23.9	24.7	25.3	25.8	26.6	26.3	27.1	27.7
	6H	24.0	24.6	24.5	25.1	25.7	26.9	27.6	27.5	28.1	28.7
	8H	24.2	24.8	24.7	25.3	25.9	27.6	28.1	28.1	28.7	29.3

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 1632.261 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.)