



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL15 UV FR 935 @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 8 SEL15 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 28 LED boards, 3500K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 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	1957
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	13.4
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)	7.67 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	3835	3412	3308
55	3341	3015	2930
65	2691	2533	2458
75	1976	2027	1926
85	1199	1646	1460

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	239.94	N.A.	12.30
0-30	510.20	N.A.	26.10
0-40	835.32	N.A.	42.70
0-60	1464.04	N.A.	74.80
0-80	1824.04	N.A.	93.20
0-90	1894.2	N.A.	96.80
10-90	1832.22	N.A.	93.60
20-40	595.38	N.A.	30.40
20-50	929.06	N.A.	47.50
40-70	850.46	N.A.	43.50
60-80	360.00	N.A.	18.40
70-80	138.26	N.A.	7.10
80-90	70.17	N.A.	3.60
90-110	47.14	N.A.	2.40
90-120	55.02	N.A.	2.80
90-130	59.20	N.A.	3.00
90-150	62.32	N.A.	3.20
90-180	62.87	N.A.	3.20
110-180	15.74	N.A.	0.80
0-180	1957.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.98
10-20	177.96
20-30	270.26
30-40	325.12
40-50	333.67
50-60	295.04
60-70	221.74
70-80	138.26
80-90	70.17
90-100	31.81
100-110	15.32
110-120	7.89
120-130	4.17
130-140	2.13
140-150	0.99
150-160	0.43
160-170	0.12
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

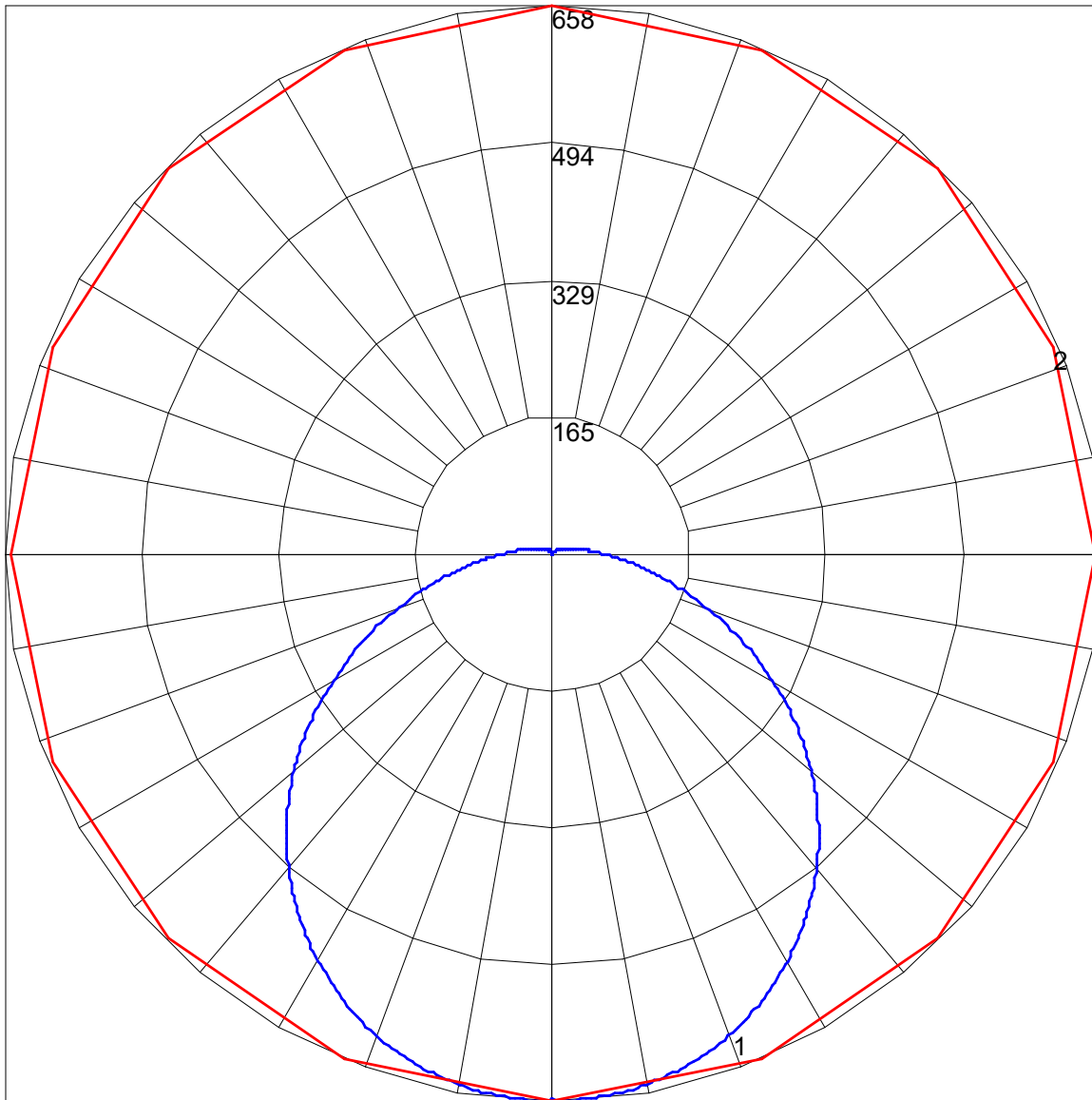
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UGR TABLE - CORRECTED

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	14.4	16.0	14.8	16.4	16.8	16.5	18.1	16.9	18.4	18.8
	3H	15.6	17.1	16.1	17.5	17.9	18.5	19.9	18.9	20.3	20.7
	4H	16.0	17.3	16.4	17.7	18.2	19.3	20.7	19.8	21.1	21.5
	6H	16.2	17.4	16.6	17.9	18.3	20.1	21.4	20.6	21.8	22.3
	8H	16.2	17.4	16.7	17.9	18.3	20.5	21.7	20.9	22.1	22.6
	12H	16.2	17.4	16.7	17.8	18.3	20.9	22.0	21.4	22.5	23.0
4H	2H	15.3	16.6	15.7	17.0	17.5	16.9	18.2	17.3	18.6	19.1
	3H	16.7	17.9	17.2	18.3	18.8	19.1	20.2	19.5	20.7	21.2
	4H	17.2	18.2	17.7	18.7	19.2	20.1	21.1	20.6	21.6	22.1
	6H	17.5	18.4	18.0	18.9	19.4	21.0	22.0	21.5	22.5	23.0
	8H	17.5	18.4	18.0	18.9	19.4	21.5	22.4	22.0	22.9	23.4
	12H	17.6	18.4	18.1	18.9	19.4	22.0	22.8	22.5	23.3	23.9
8H	4H	17.7	18.6	18.2	19.1	19.6	20.3	21.1	20.8	21.6	22.2
	6H	18.2	18.9	18.7	19.4	20.0	21.4	22.1	21.9	22.6	23.2
	8H	18.3	19.0	18.9	19.5	20.1	21.9	22.6	22.5	23.2	23.7
	12H	18.4	19.0	19.0	19.5	20.2	22.6	23.2	23.1	23.7	24.3
12H	4H	17.8	18.6	18.4	19.1	19.7	20.3	21.0	20.8	21.6	22.1
	6H	18.4	19.0	18.9	19.6	20.2	21.4	22.1	22.0	22.6	23.2
	8H	18.6	19.2	19.2	19.7	20.3	22.0	22.6	22.6	23.2	23.8

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 658.212 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.)