IES INDOOR REPORT
PHOTOMETRIC FILENAME : ECL N G2 4 SEL15 UV FR 935 @270MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLIA001735-006(s)
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 6/6/2024
[MANUFAC] LumenFocus, LLC
[LUMCAT] ECL N G2 4 SEL15 UV FR 935
[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,
[MORE] translucent curved plastic enclosure.
[LAMPCAT] Two LS3872A 28 LED boards, 3500K
[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set at 270mA
[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	1772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	12.2
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	6870	6133	5974
55	5964	5411	5291
65	4778	4536	4440
75	3467	3618	3479
85	1995	2919	2637

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	217.27	N.A.	12.30
0-30	461.99	N.A.	26.10
0-40	756.39	N.A.	42.70
0-60	1325.69	N.A.	74.80
0-80	1651.67	N.A.	93.20
0-90	1715.21	N.A.	96.80
10-90	1659.09	N.A.	93.60
20-40	539.12	N.A.	30.40
20-50	841.27	N.A.	47.50
40-70	770.09	N.A.	43.50
60-80	325.98	N.A.	18.40
70-80	125.19	N.A.	7.10
80-90	63.54	N.A.	3.60
90-110	42.68	N.A.	2.40
90-120	49.83	N.A.	2.80
90-130	53.60	N.A.	3.00
90-150	56.44	N.A.	3.20
90-180	56.93	N.A.	3.20
110-180	14.25	N.A.	0.80
0-180	1772.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.12
10-20	161.14
20-30	244.72
30-40	294.40
40-50	302.14
50-60	267.16
60-70	200.79
70-80	125.19
80-90	63.54
90-100	28.81
100-110	13.87
110-120	7.14
120-130	3.78
130-140	1.93
140-150	0.90
150-160	0.39
160-170	0.11
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	16.5	18.1	16.9	18.5	18.9	18.5	20.1	18.9	20.5	20.9
	3H	17.7	19.2	18.2	19.5	20.0	20.5	21.9	20.9	22.3	22.8
	4H	18.1	19.4	18.5	19.8	20.3	21.4	22.7	21.8	23.1	23.6
	6H	18.3	19.5	18.7	20.0	20.4	22.1	23.4	22.6	23.8	24.3
	8H	18.3	19.5	18.8	20.0	20.4	22.5	23.7	23.0	24.2	24.6
	12H	18.3	19.5	18.8	19.9	20.4	22.9	24.1	23.4	24.5	25.0
4H	2H	17.4	18.7	17.8	19.1	19.6	19.0	20.3	19.4	20.7	21.2
	3H	18.8	19.9	19.2	20.4	20.9	21.1	22.3	21.6	22.7	23.2
	4H	19.3	20.3	19.7	20.8	21.3	22.1	23.2	22.6	23.6	24.1
	6H	19.6	20.5	20.1	21.0	21.5	23.1	24.0	23.6	24.5	25.0
	8H	19.6	20.5	20.1	21.0	21.5	23.5	24.4	24.0	24.9	25.4
	12H	19.7	20.4	20.2	21.0	21.5	24.0	24.8	24.5	25.3	25.9
8H	4H	19.8	20.7	20.3	21.2	21.7	22.3	23.2	22.8	23.7	24.2
	6H	20.3	21.0	20.8	21.5	22.1	23.4	24.1	23.9	24.7	25.2
	8H	20.4	21.1	20.9	21.6	22.2	24.0	24.6	24.5	25.2	25.7
	12H	20.5	21.1	21.0	21.6	22.2	24.6	25.2	25.2	25.7	26.4
12H	4H	19.9	20.7	20.4	21.2	21.8	22.3	23.1	22.8	23.6	24.2
	6H	20.5	21.1	21.0	21.6	22.2	23.4	24.1	24.0	24.6	25.2
	8H	20.7	21.3	21.2	21.8	22.4	24.1	24.6	24.6	25.2	25.8

Maximum UGR = 26.4

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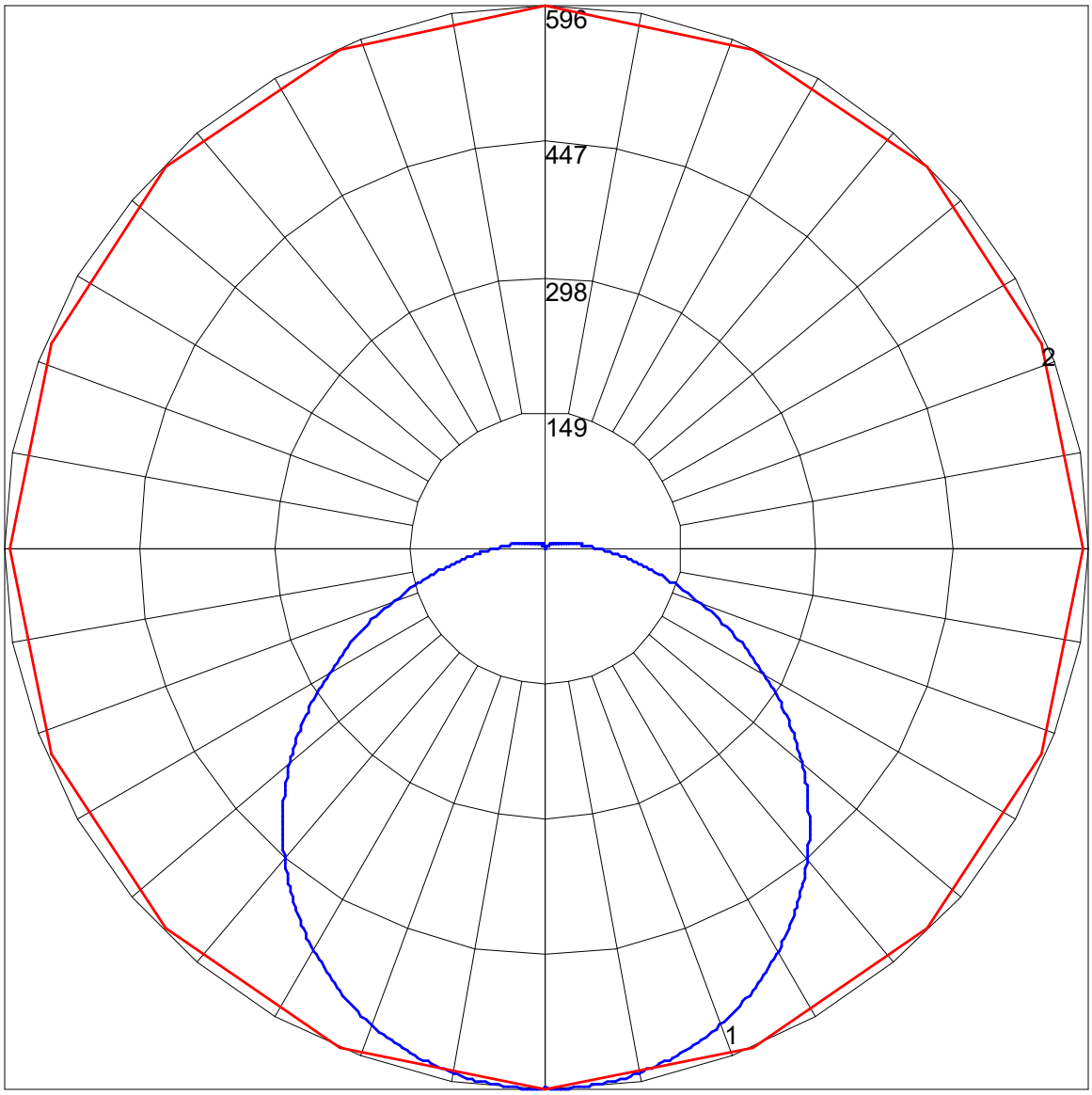
POLAR GRAPH



Maximum Candela = 596.014 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.)