



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL15 UV FR 930 @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 930

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 28 LED boards, 3000K

[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	1949
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
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	3819	3398	3294
55	3327	3002	2917
65	2680	2522	2448
75	1968	2018	1918
85	1194	1640	1454

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Zone	Lumens	%Lamp	%Fixt
0-20	238.93	N.A.	12.30
0-30	508.06	N.A.	26.10
0-40	831.82	N.A.	42.70
0-60	1457.89	N.A.	74.80
0-80	1816.38	N.A.	93.20
0-90	1886.25	N.A.	96.80
10-90	1824.53	N.A.	93.60
20-40	592.89	N.A.	30.40
20-50	925.16	N.A.	47.50
40-70	846.89	N.A.	43.50
60-80	358.49	N.A.	18.40
70-80	137.68	N.A.	7.10
80-90	69.87	N.A.	3.60
90-110	46.94	N.A.	2.40
90-120	54.79	N.A.	2.80
90-130	58.95	N.A.	3.00
90-150	62.06	N.A.	3.20
90-180	62.61	N.A.	3.20
110-180	15.67	N.A.	0.80
0-180	1948.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.72
10-20	177.21
20-30	269.13
30-40	323.76
40-50	332.27
50-60	293.80
60-70	220.81
70-80	137.68
80-90	69.87
90-100	31.68
100-110	15.26
110-120	7.85
120-130	4.15
130-140	2.13
140-150	0.99
150-160	0.42
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

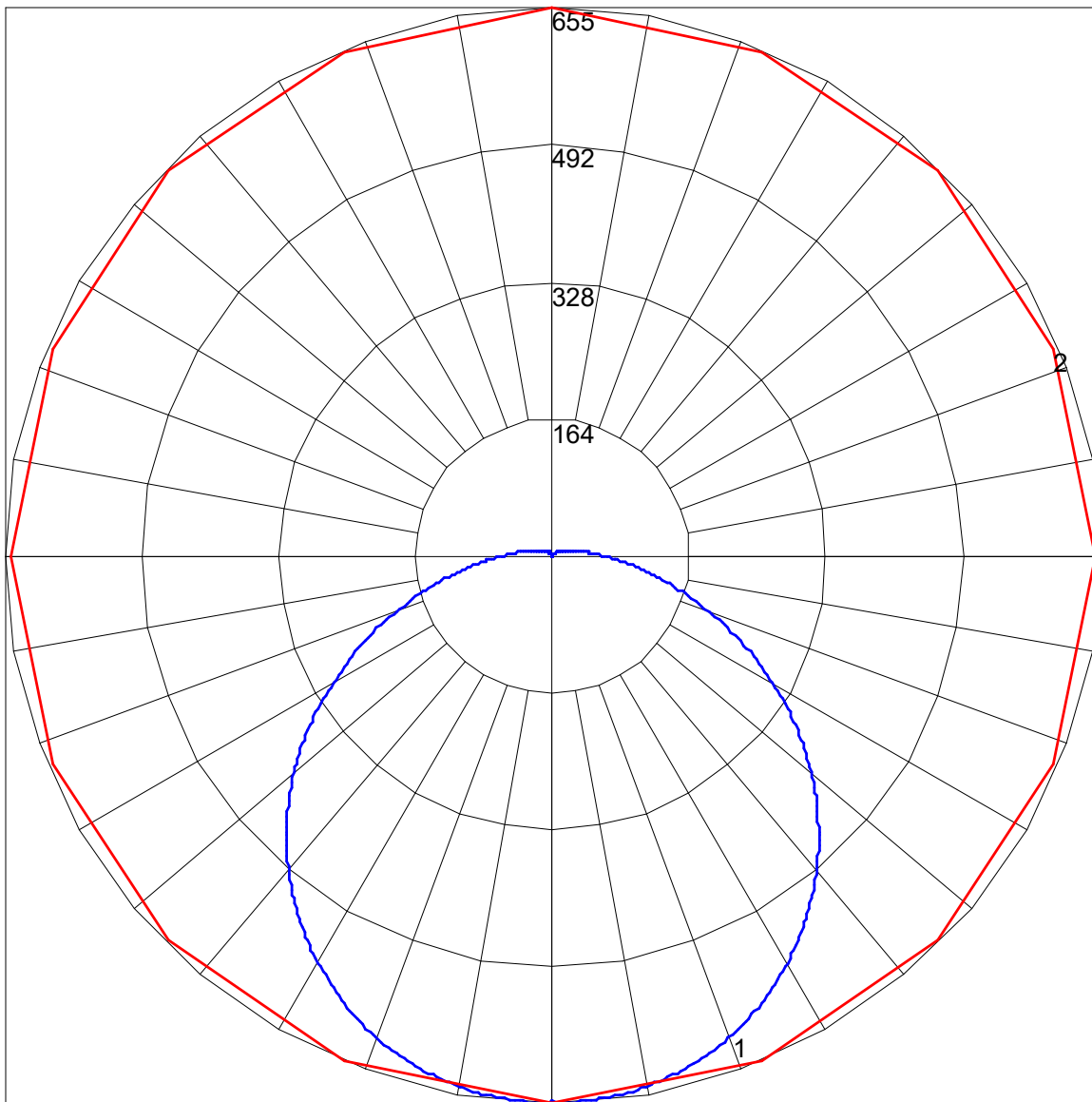
X=2H	Y=2H	14.4	16.0	14.8	16.4	16.8	16.5	18.1	16.9	18.4	18.8
	3H	15.6	17.1	16.1	17.5	17.9	18.5	19.9	18.9	20.3	20.7
	4H	16.0	17.3	16.4	17.8	18.2	19.3	20.7	19.8	21.1	21.5
	6H	16.2	17.4	16.6	17.9	18.3	20.1	21.4	20.6	21.8	22.3
	8H	16.2	17.4	16.7	17.9	18.3	20.5	21.7	21.0	22.1	22.6
	12H	16.2	17.4	16.7	17.8	18.3	20.9	22.0	21.4	22.5	23.0

UGR Viewed Endwise

4H	2H	15.3	16.6	15.7	17.0	17.5	16.9	18.2	17.3	18.7	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	19.5	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	19.2	19.7	20.3	21.0	20.8	21.6	22.1
	6H	18.4	19.1	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	20.4	22.0	22.6	22.6	23.2	23.8

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 655.449 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.)