



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL15 UV FR 930 @200MA.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 200mA

[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	1293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	8.9
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)	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	2534	2255	2186
55	2208	1992	1936
65	1778	1674	1625
75	1306	1339	1273
85	792	1088	965

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Zone	Lumens	%Lamp	%Fixt
0-20	158.56	N.A.	12.30
0-30	337.17	N.A.	26.10
0-40	552.03	N.A.	42.70
0-60	967.52	N.A.	74.80
0-80	1205.42	N.A.	93.20
0-90	1251.79	N.A.	96.80
10-90	1210.83	N.A.	93.60
20-40	393.46	N.A.	30.40
20-50	613.97	N.A.	47.50
40-70	562.03	N.A.	43.50
60-80	237.91	N.A.	18.40
70-80	91.37	N.A.	7.10
80-90	46.37	N.A.	3.60
90-110	31.15	N.A.	2.40
90-120	36.36	N.A.	2.80
90-130	39.12	N.A.	3.00
90-150	41.19	N.A.	3.20
90-180	41.55	N.A.	3.20
110-180	10.40	N.A.	0.80
0-180	1293.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.96
10-20	117.61
20-30	178.60
30-40	214.86
40-50	220.51
50-60	194.98
60-70	146.54
70-80	91.37
80-90	46.37
90-100	21.03
100-110	10.13
110-120	5.21
120-130	2.76
130-140	1.41
140-150	0.66
150-160	0.28
160-170	0.08
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

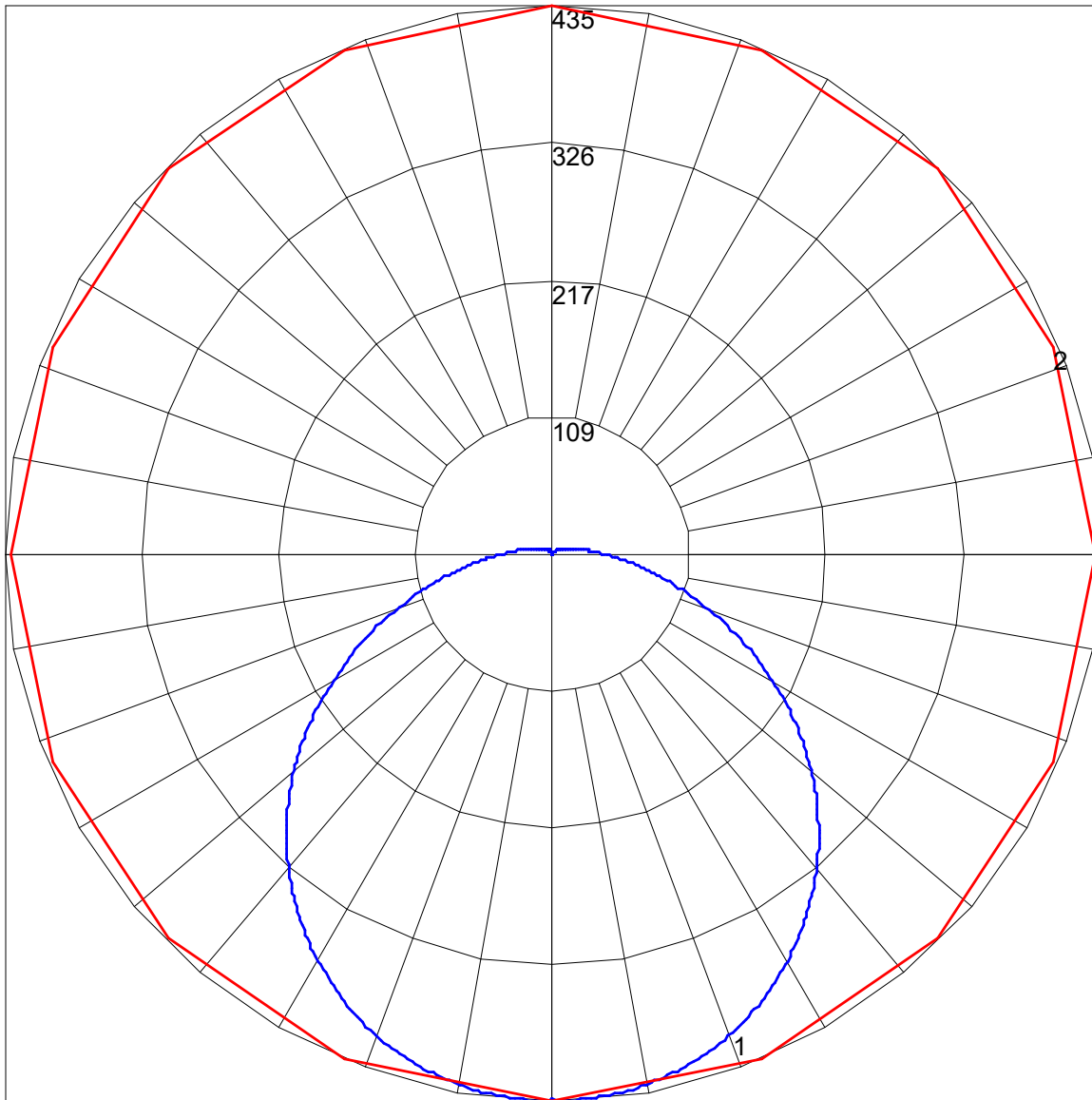
Reflectances

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	13.0	14.6	13.4	15.0	15.4	15.1	16.7	15.5	17.0	17.4
	3H	14.2	15.7	14.7	16.1	16.5	17.1	18.5	17.5	18.9	19.3
	4H	14.6	15.9	15.0	16.3	16.8	17.9	19.3	18.4	19.7	20.1
	6H	14.8	16.0	15.2	16.5	16.9	18.7	20.0	19.2	20.4	20.9
	8H	14.8	16.0	15.3	16.5	16.9	19.1	20.3	19.6	20.7	21.2
	12H	14.8	16.0	15.3	16.4	16.9	19.5	20.6	20.0	21.1	21.6
4H	2H	13.9	15.2	14.3	15.6	16.1	15.5	16.8	15.9	17.3	17.7
	3H	15.3	16.5	15.8	16.9	17.4	17.7	18.8	18.1	19.3	19.8
	4H	15.8	16.8	16.3	17.3	17.8	18.7	19.7	19.2	20.2	20.7
	6H	16.1	17.0	16.6	17.5	18.0	19.6	20.6	20.1	21.1	21.6
	8H	16.1	17.0	16.6	17.5	18.0	20.1	21.0	20.6	21.5	22.0
	12H	16.2	17.0	16.7	17.5	18.0	20.6	21.4	21.1	21.9	22.5
8H	4H	16.3	17.2	16.8	17.7	18.2	18.9	19.7	19.4	20.2	20.8
	6H	16.8	17.5	17.3	18.1	18.6	20.0	20.7	20.5	21.2	21.8
	8H	16.9	17.6	17.5	18.1	18.7	20.5	21.2	21.1	21.8	22.3
	12H	17.0	17.6	17.6	18.1	18.8	21.2	21.8	21.7	22.3	22.9
12H	4H	16.4	17.2	17.0	17.8	18.3	18.9	19.6	19.4	20.2	20.7
	6H	17.0	17.6	17.5	18.2	18.8	20.0	20.7	20.6	21.2	21.8
	8H	17.2	17.8	17.8	18.3	19.0	20.6	21.2	21.2	21.8	22.4

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 434.982 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.)