



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL45 UV FR 930 @700MA.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 SEL45 UV FR 930

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 3000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set at 700mA

[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	5222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	33.8
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	10231	9104	8826
55	8913	8044	7817
65	7180	6757	6559
75	5273	5408	5139
85	3200	4393	3896

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Zone	Lumens	%Lamp	%Fixt
0-20	640.20	N.A.	12.30
0-30	1361.3	N.A.	26.10
0-40	2228.78	N.A.	42.70
0-60	3906.3	N.A.	74.80
0-80	4866.83	N.A.	93.20
0-90	5054.05	N.A.	96.80
10-90	4888.68	N.A.	93.60
20-40	1588.59	N.A.	30.40
20-50	2478.89	N.A.	47.50
40-70	2269.16	N.A.	43.50
60-80	960.53	N.A.	18.40
70-80	368.89	N.A.	7.10
80-90	187.22	N.A.	3.60
90-110	125.77	N.A.	2.40
90-120	146.82	N.A.	2.80
90-130	157.95	N.A.	3.00
90-150	166.29	N.A.	3.20
90-180	167.76	N.A.	3.20
110-180	41.99	N.A.	0.80
0-180	5221.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.37
10-20	474.83
20-30	721.10
30-40	867.48
40-50	890.30
50-60	787.21
60-70	591.64
70-80	368.89
80-90	187.22
90-100	84.89
100-110	40.88
110-120	21.04
120-130	11.13
130-140	5.69
140-150	2.65
150-160	1.14
160-170	0.33
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

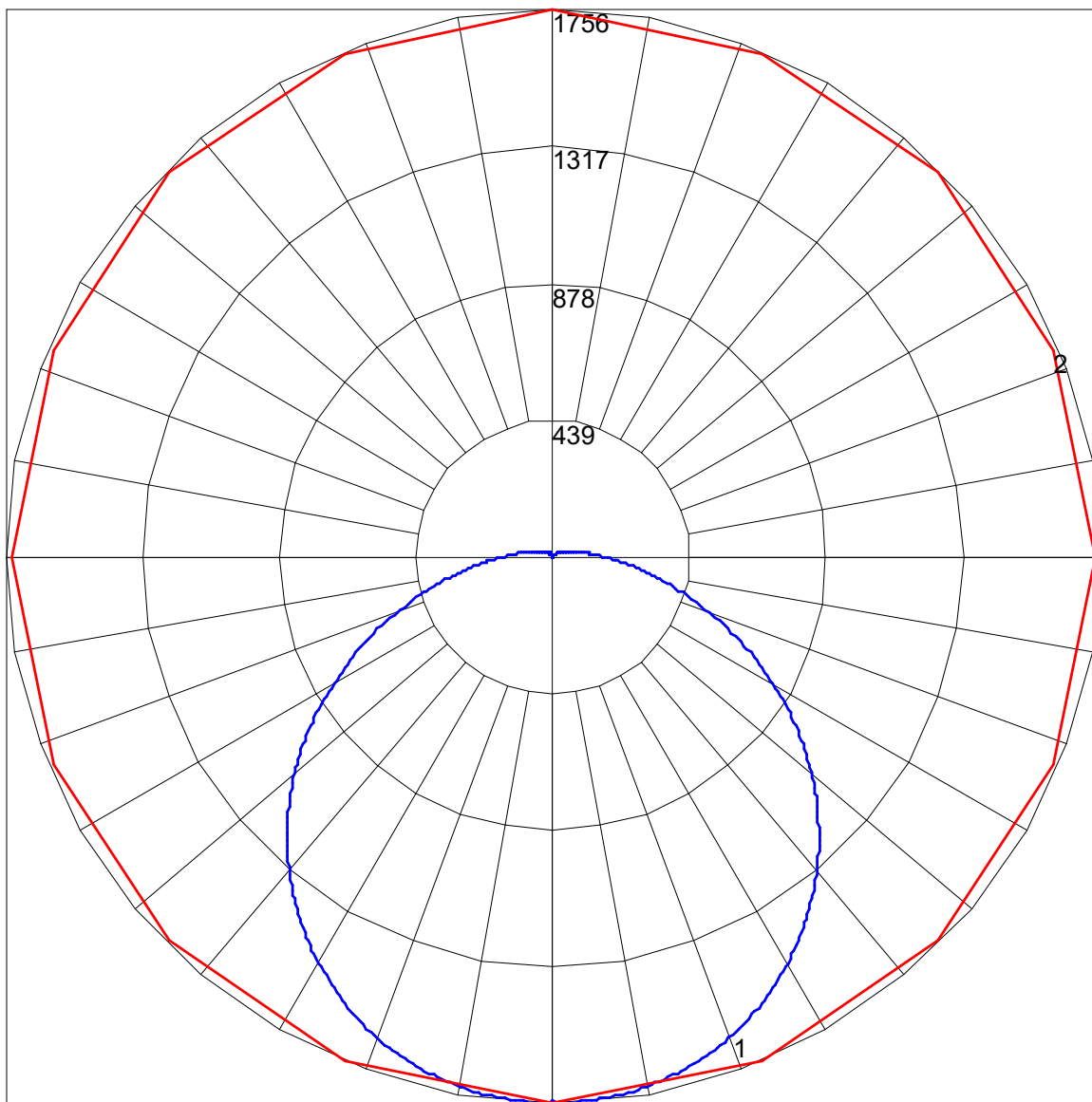
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UGR TABLE - CORRECTED

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	17.8	19.4	18.2	19.8	20.2	19.9	21.5	20.3	21.8	22.2
	3H	19.0	20.5	19.5	20.9	21.3	21.9	23.3	22.3	23.7	24.1
	4H	19.4	20.7	19.8	21.1	21.6	22.7	24.1	23.2	24.5	24.9
	6H	19.6	20.8	20.0	21.3	21.7	23.5	24.8	24.0	25.2	25.7
	8H	19.6	20.8	20.1	21.3	21.7	23.9	25.1	24.3	25.5	26.0
	12H	19.6	20.8	20.1	21.2	21.7	24.3	25.4	24.8	25.9	26.4
4H	2H	18.7	20.0	19.1	20.4	20.9	20.3	21.6	20.7	22.0	22.5
	3H	20.1	21.3	20.6	21.7	22.2	22.5	23.6	22.9	24.1	24.6
	4H	20.6	21.6	21.1	22.1	22.6	23.5	24.5	24.0	25.0	25.5
	6H	20.9	21.8	21.4	22.3	22.8	24.4	25.4	24.9	25.9	26.4
	8H	20.9	21.8	21.4	22.3	22.8	24.9	25.8	25.4	26.3	26.8
	12H	21.0	21.8	21.5	22.3	22.8	25.4	26.2	25.9	26.7	27.3
8H	4H	21.1	22.0	21.6	22.5	23.0	23.7	24.5	24.2	25.0	25.6
	6H	21.6	22.3	22.1	22.9	23.4	24.8	25.5	25.3	26.0	26.6
	8H	21.7	22.4	22.3	22.9	23.5	25.3	26.0	25.9	26.6	27.1
	12H	21.8	22.4	22.4	22.9	23.6	26.0	26.6	26.5	27.1	27.7
12H	4H	21.2	22.0	21.8	22.6	23.1	23.7	24.4	24.2	25.0	25.5
	6H	21.8	22.4	22.3	23.0	23.6	24.8	25.5	25.4	26.0	26.6
	8H	22.0	22.6	22.6	23.1	23.8	25.4	26.0	26.0	26.6	27.2

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 1756.219 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.)