



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL25 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 SEL25 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-25-UV-PS450-54-VDIM-LP2 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	2215
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	14.6
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	4340	3862	3744
55	3781	3412	3316
65	3046	2866	2782
75	2237	2294	2180
85	1357	1864	1653

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	271.56	N.A.	12.30
0-30	577.45	N.A.	26.10
0-40	945.43	N.A.	42.70
0-60	1657.01	N.A.	74.80
0-80	2064.45	N.A.	93.20
0-90	2143.87	N.A.	96.80
10-90	2073.72	N.A.	93.60
20-40	673.86	N.A.	30.40
20-50	1051.52	N.A.	47.50
40-70	962.55	N.A.	43.50
60-80	407.45	N.A.	18.40
70-80	156.48	N.A.	7.10
80-90	79.42	N.A.	3.60
90-110	53.35	N.A.	2.40
90-120	62.28	N.A.	2.80
90-130	67.00	N.A.	3.00
90-150	70.54	N.A.	3.20
90-180	71.16	N.A.	3.20
110-180	17.81	N.A.	0.80
0-180	2215.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.15
10-20	201.42
20-30	305.88
30-40	367.98
40-50	377.66
50-60	333.93
60-70	250.97
70-80	156.48
80-90	79.42
90-100	36.01
100-110	17.34
110-120	8.93
120-130	4.72
130-140	2.42
140-150	1.13
150-160	0.48
160-170	0.14
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

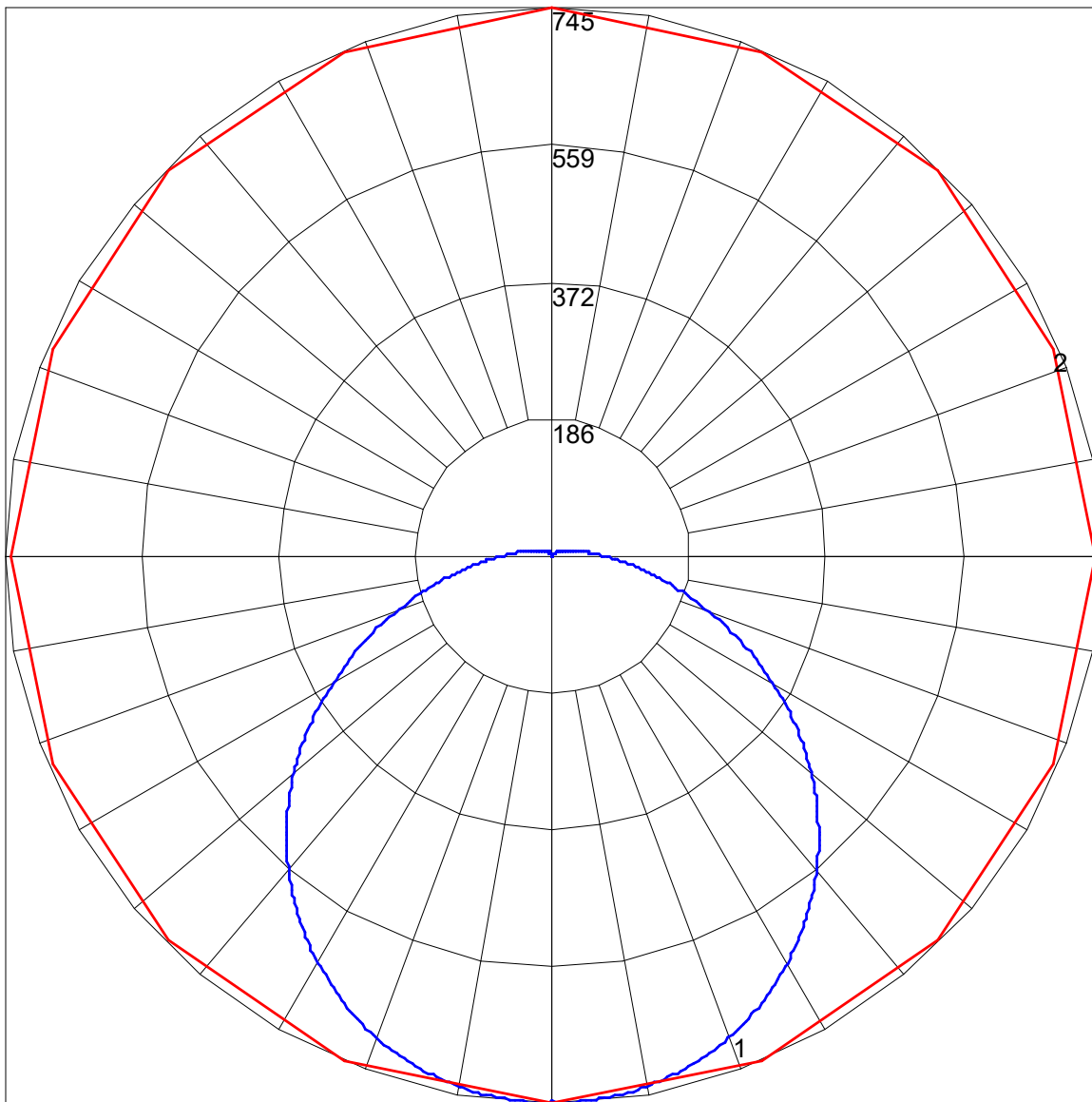
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UGR TABLE - CORRECTED

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	14.9	16.5	15.3	16.9	17.3	17.0	18.6	17.4	18.9	19.3
	3H	16.1	17.6	16.6	18.0	18.4	19.0	20.4	19.4	20.8	21.2
	4H	16.5	17.8	16.9	18.2	18.7	19.8	21.2	20.3	21.6	22.0
	6H	16.7	17.9	17.1	18.4	18.8	20.6	21.9	21.1	22.3	22.8
	8H	16.7	17.9	17.2	18.4	18.8	21.0	22.2	21.5	22.6	23.1
	12H	16.7	17.9	17.2	18.3	18.8	21.4	22.5	21.9	23.0	23.5
4H	2H	15.8	17.1	16.2	17.5	18.0	17.4	18.7	17.8	19.2	19.6
	3H	17.2	18.4	17.7	18.8	19.3	19.6	20.7	20.0	21.2	21.7
	4H	17.7	18.7	18.2	19.2	19.7	20.6	21.6	21.1	22.1	22.6
	6H	18.0	18.9	18.5	19.4	19.9	21.5	22.5	22.0	23.0	23.5
	8H	18.0	18.9	18.5	19.4	19.9	22.0	22.9	22.5	23.4	23.9
	12H	18.1	18.9	18.6	19.4	19.9	22.5	23.3	23.0	23.8	24.4
8H	4H	18.2	19.1	18.7	19.6	20.1	20.8	21.6	21.3	22.1	22.7
	6H	18.7	19.4	19.2	20.0	20.5	21.9	22.6	22.4	23.1	23.7
	8H	18.8	19.5	19.4	20.0	20.6	22.4	23.1	23.0	23.7	24.2
	12H	18.9	19.5	19.5	20.0	20.7	23.1	23.7	23.6	24.2	24.8
12H	4H	18.3	19.1	18.9	19.7	20.2	20.8	21.5	21.3	22.1	22.6
	6H	18.9	19.5	19.4	20.1	20.7	21.9	22.6	22.5	23.1	23.7
	8H	19.1	19.7	19.7	20.2	20.9	22.5	23.1	23.1	23.7	24.3

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 744.968 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.)