



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL25 UV FR 935 @450MA.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 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 3500K

[BALLAST] One KTLD-25-UV-PS450-54-VDIM-LP2 LED driver set at 450mA

[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	3354
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	22
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	6571	5847	5668
55	5724	5166	5020
65	4611	4340	4212
75	3387	3473	3301
85	2055	2821	2502

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Zone	Lumens	%Lamp	%Fixt
0-20	411.16	N.A.	12.30
0-30	874.28	N.A.	26.10
0-40	1431.41	N.A.	42.70
0-60	2508.78	N.A.	74.80
0-80	3125.67	N.A.	93.20
0-90	3245.91	N.A.	96.80
10-90	3139.7	N.A.	93.60
20-40	1020.25	N.A.	30.40
20-50	1592.04	N.A.	47.50
40-70	1457.34	N.A.	43.50
60-80	616.89	N.A.	18.40
70-80	236.91	N.A.	7.10
80-90	120.24	N.A.	3.60
90-110	80.78	N.A.	2.40
90-120	94.29	N.A.	2.80
90-130	101.44	N.A.	3.00
90-150	106.80	N.A.	3.20
90-180	107.74	N.A.	3.20
110-180	26.96	N.A.	0.80
0-180	3353.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.21
10-20	304.95
20-30	463.12
30-40	557.13
40-50	571.79
50-60	505.58
60-70	379.98
70-80	236.91
80-90	120.24
90-100	54.52
100-110	26.26
110-120	13.52
120-130	7.15
130-140	3.66
140-150	1.70
150-160	0.73
160-170	0.21
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

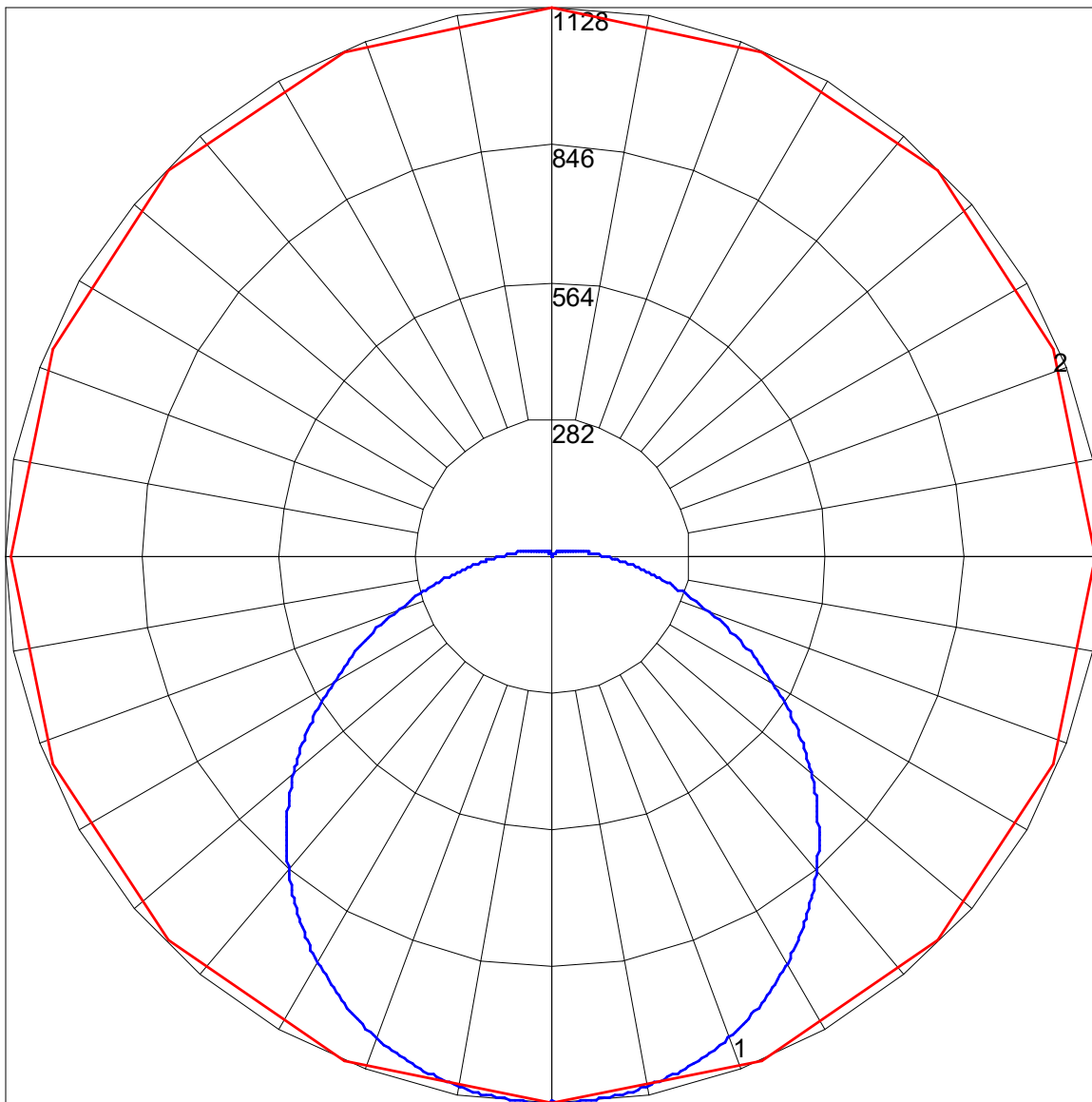
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UGR TABLE - CORRECTED

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	16.3	17.9	16.7	18.3	18.7	18.4	20.0	18.8	20.3	20.7
	3H	17.5	19.0	18.0	19.4	19.8	20.4	21.8	20.8	22.2	22.6
	4H	17.9	19.2	18.3	19.6	20.1	21.2	22.6	21.7	23.0	23.4
	6H	18.1	19.3	18.5	19.8	20.2	22.0	23.3	22.5	23.7	24.2
	8H	18.1	19.3	18.6	19.8	20.2	22.4	23.6	22.9	24.0	24.5
	12H	18.1	19.3	18.6	19.7	20.2	22.8	23.9	23.3	24.4	24.9
4H	2H	17.2	18.5	17.6	18.9	19.4	18.8	20.1	19.2	20.6	21.0
	3H	18.6	19.8	19.1	20.2	20.7	21.0	22.1	21.4	22.6	23.1
	4H	19.1	20.1	19.6	20.6	21.1	22.0	23.0	22.5	23.5	24.0
	6H	19.4	20.3	19.9	20.8	21.3	22.9	23.9	23.4	24.4	24.9
	8H	19.4	20.3	19.9	20.8	21.3	23.4	24.3	23.9	24.8	25.3
	12H	19.5	20.3	20.0	20.8	21.3	23.9	24.7	24.4	25.2	25.8
8H	4H	19.6	20.5	20.1	21.0	21.5	22.2	23.0	22.7	23.5	24.1
	6H	20.1	20.8	20.6	21.4	21.9	23.3	24.0	23.8	24.5	25.1
	8H	20.2	20.9	20.8	21.4	22.0	23.8	24.5	24.4	25.1	25.6
	12H	20.3	20.9	20.9	21.4	22.1	24.5	25.1	25.0	25.6	26.2
12H	4H	19.7	20.5	20.3	21.1	21.6	22.2	22.9	22.7	23.5	24.0
	6H	20.3	20.9	20.8	21.5	22.1	23.3	24.0	23.9	24.5	25.1
	8H	20.5	21.1	21.1	21.6	22.3	23.9	24.5	24.5	25.1	25.7

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 1127.912 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.)