



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL35 UV FR 930 @650MA.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 SEL35 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-35-UV-PS650-54-VDIM-LM1 LED driver set at 650mA

[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	4845
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	31
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	9493	8446	8189
55	8270	7464	7253
65	6661	6269	6085
75	4892	5018	4768
85	2969	4076	3615

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	593.98	N.A.	12.30
0-30	1263.02	N.A.	26.10
0-40	2067.87	N.A.	42.70
0-60	3624.28	N.A.	74.80
0-80	4515.46	N.A.	93.20
0-90	4689.17	N.A.	96.80
10-90	4535.74	N.A.	93.60
20-40	1473.9	N.A.	30.40
20-50	2299.92	N.A.	47.50
40-70	2105.33	N.A.	43.50
60-80	891.19	N.A.	18.40
70-80	342.26	N.A.	7.10
80-90	173.71	N.A.	3.60
90-110	116.69	N.A.	2.40
90-120	136.22	N.A.	2.80
90-130	146.54	N.A.	3.00
90-150	154.29	N.A.	3.20
90-180	155.65	N.A.	3.20
110-180	38.95	N.A.	0.80
0-180	4844.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.43
10-20	440.55
20-30	669.04
30-40	804.86
40-50	826.02
50-60	730.38
60-70	548.93
70-80	342.26
80-90	173.71
90-100	78.76
100-110	37.93
110-120	19.53
120-130	10.33
130-140	5.28
140-150	2.46
150-160	1.05
160-170	0.30
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

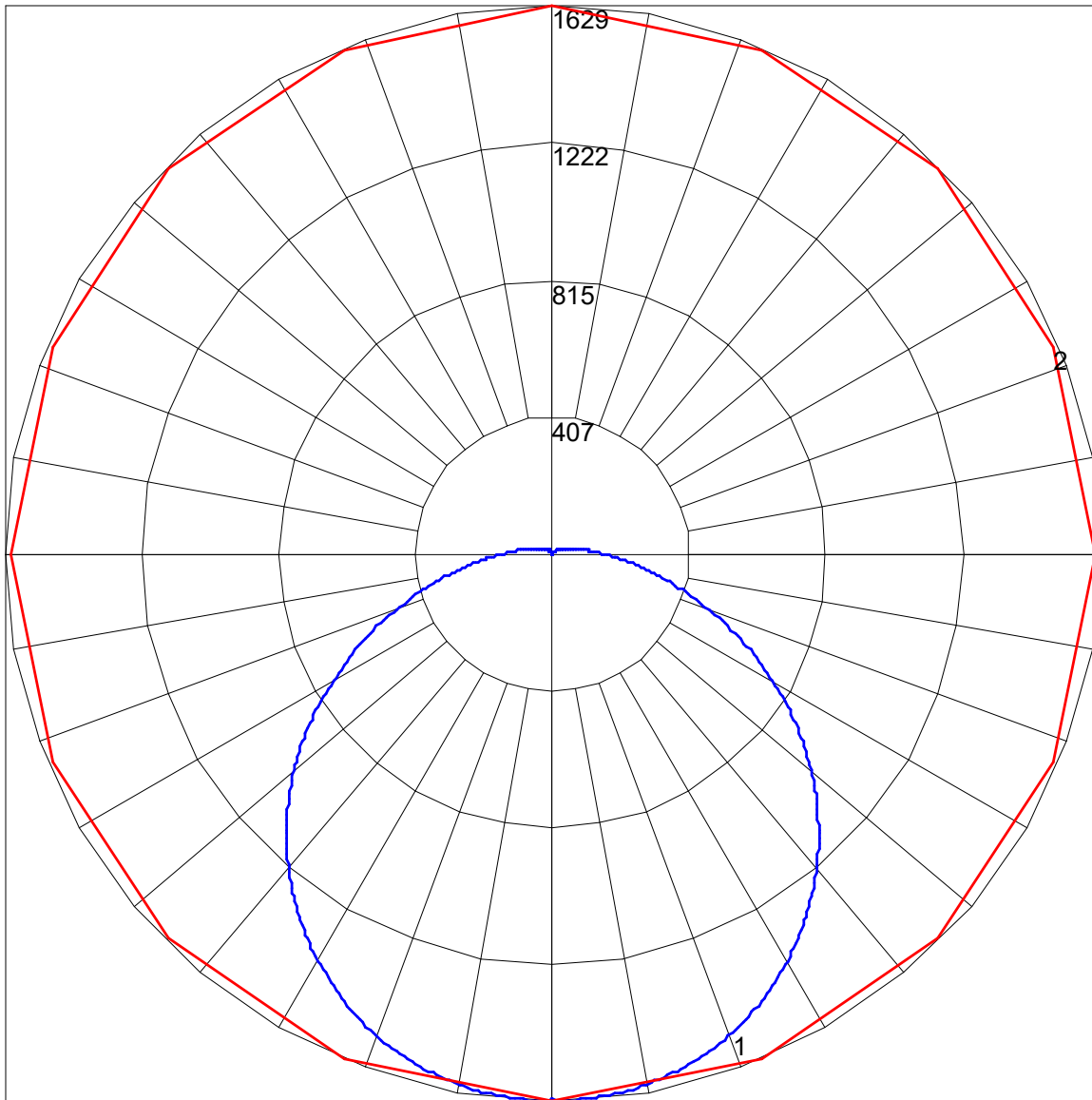
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UGR TABLE - CORRECTED

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	17.6	19.2	18.0	19.6	20.0	19.7	21.3	20.1	21.6	22.0
	3H	18.8	20.3	19.3	20.7	21.1	21.7	23.1	22.1	23.5	23.9
	4H	19.2	20.5	19.6	20.9	21.4	22.5	23.9	23.0	24.3	24.7
	6H	19.4	20.6	19.8	21.1	21.5	23.3	24.6	23.8	25.0	25.5
	8H	19.4	20.6	19.9	21.1	21.5	23.7	24.9	24.2	25.3	25.8
	12H	19.4	20.6	19.9	21.0	21.5	24.1	25.2	24.6	25.7	26.2
4H	2H	18.5	19.8	18.9	20.2	20.7	20.1	21.4	20.5	21.9	22.3
	3H	19.9	21.1	20.4	21.5	22.0	22.3	23.4	22.7	23.9	24.4
	4H	20.4	21.4	20.9	21.9	22.4	23.3	24.3	23.8	24.8	25.3
	6H	20.7	21.6	21.2	22.1	22.6	24.2	25.2	24.7	25.7	26.2
	8H	20.7	21.6	21.2	22.1	22.6	24.7	25.6	25.2	26.1	26.6
	12H	20.8	21.6	21.3	22.1	22.6	25.2	26.0	25.7	26.5	27.1
8H	4H	20.9	21.8	21.4	22.3	22.8	23.5	24.3	24.0	24.8	25.4
	6H	21.4	22.1	21.9	22.7	23.2	24.6	25.3	25.1	25.8	26.4
	8H	21.5	22.2	22.1	22.7	23.3	25.1	25.8	25.7	26.4	26.9
	12H	21.6	22.2	22.2	22.7	23.4	25.8	26.4	26.3	26.9	27.5
12H	4H	21.0	21.8	21.6	22.4	22.9	23.5	24.2	24.0	24.8	25.3
	6H	21.6	22.2	22.1	22.8	23.4	24.6	25.3	25.2	25.8	26.4
	8H	21.8	22.4	22.4	22.9	23.6	25.2	25.8	25.8	26.4	27.0

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 1629.427 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.)