

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL75 UV FR 935 @1300MA.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 SEL75 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-75-UV-PS1400-54-VDIM-LM2 LED driver set at 1300mA

[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	9706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	63.8
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	19017	16921	16405
55	16567	14952	14529
65	13345	12560	12191
75	9801	10052	9552
85	5947	8166	7241

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1189.95	N.A.	12.30
0-30	2530.27	N.A.	26.10
0-40	4142.67	N.A.	42.70
0-60	7260.69	N.A.	74.80
0-80	9046.04	N.A.	93.20
0-90	9394.03	N.A.	96.80
10-90	9086.66	N.A.	93.60
20-40	2952.73	N.A.	30.40
20-50	4607.54	N.A.	47.50
40-70	4217.71	N.A.	43.50
60-80	1785.35	N.A.	18.40
70-80	685.66	N.A.	7.10
80-90	347.99	N.A.	3.60
90-110	233.77	N.A.	2.40
90-120	272.89	N.A.	2.80
90-130	293.58	N.A.	3.00
90-150	309.09	N.A.	3.20
90-180	311.81	N.A.	3.20
110-180	78.04	N.A.	0.80
0-180	9705.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	307.38
10-20	882.57
20-30	1340.32
30-40	1612.41
40-50	1654.81
50-60	1463.2
60-70	1099.7
70-80	685.66
80-90	347.99
90-100	157.78
100-110	75.99
110-120	39.12
120-130	20.69
130-140	10.59
140-150	4.93
150-160	2.11
160-170	0.61
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

X=2H	Y=2H	20.0	21.6	20.4	22.0	22.4	22.1	23.7	22.5	24.0	24.4
	3H	21.2	22.7	21.7	23.1	23.5	24.1	25.5	24.5	25.9	26.3
	4H	21.6	22.9	22.0	23.3	23.8	24.9	26.3	25.4	26.7	27.1
	6H	21.8	23.0	22.2	23.5	23.9	25.7	27.0	26.2	27.4	27.9
	8H	21.8	23.0	22.3	23.5	23.9	26.1	27.3	26.5	27.7	28.2
	12H	21.8	23.0	22.3	23.4	23.9	26.5	27.6	27.0	28.1	28.6

### UGR Viewed Endwise

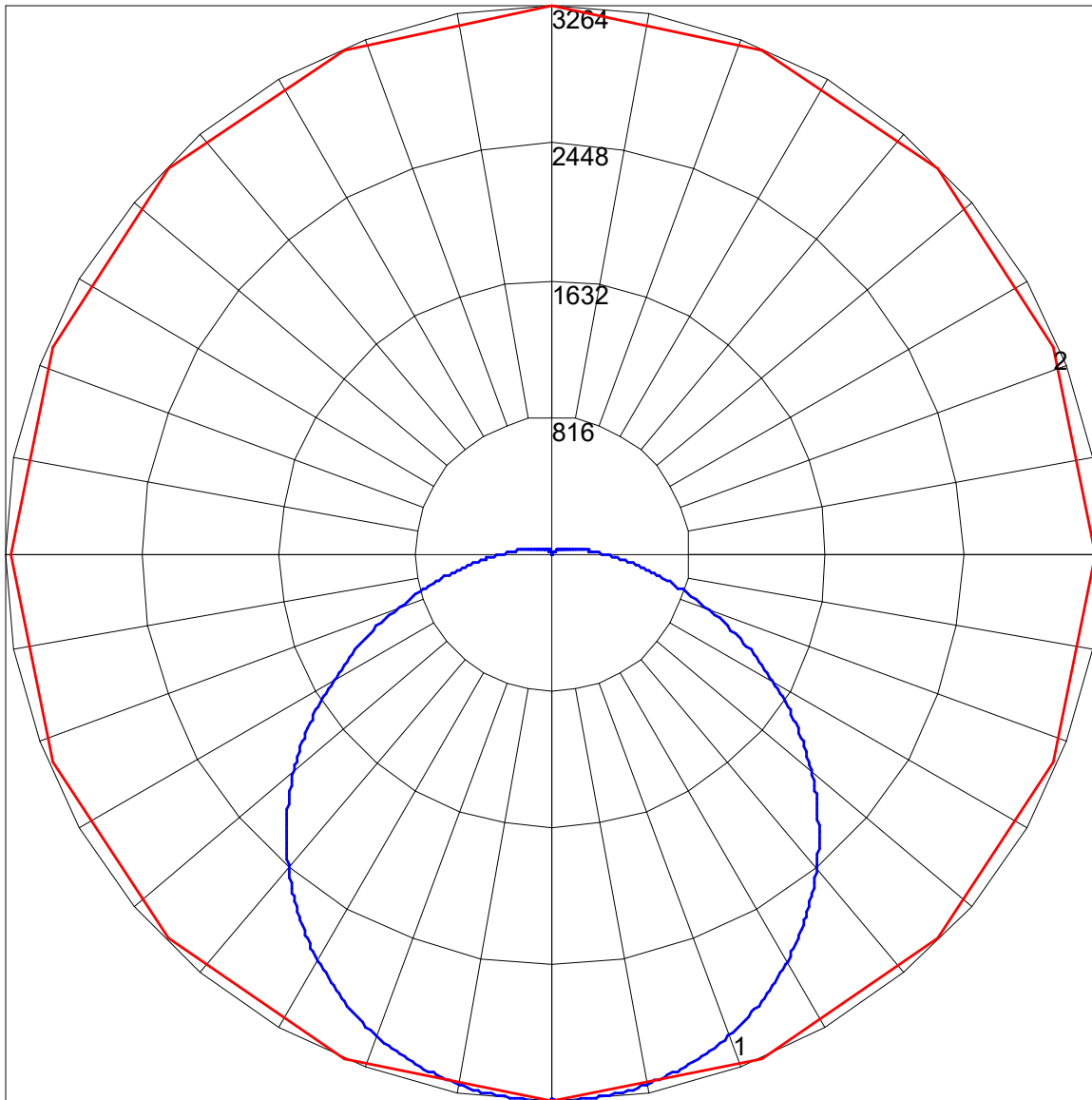
4H	2H	20.9	22.2	21.3	22.6	23.1	22.5	23.8	22.9	24.3	24.7
	3H	22.3	23.5	22.8	23.9	24.4	24.7	25.8	25.1	26.3	26.8
	4H	22.8	23.8	23.3	24.3	24.8	25.7	26.7	26.2	27.2	27.7
	6H	23.1	24.0	23.6	24.5	25.0	26.6	27.6	27.1	28.1	28.6
	8H	23.1	24.0	23.6	24.5	25.0	27.1	28.0	27.6	28.5	29.0
	12H	23.2	24.0	23.7	24.5	25.0	27.6	28.4	28.1	28.9	29.5

8H	4H	23.3	24.2	23.8	24.7	25.2	25.9	26.7	26.4	27.2	27.8
	6H	23.8	24.5	24.3	25.1	25.6	27.0	27.7	27.5	28.2	28.8
	8H	23.9	24.6	24.5	25.1	25.7	27.5	28.2	28.1	28.8	29.3
	12H	24.0	24.6	24.6	25.1	25.8	28.2	28.8	28.7	29.3	29.9

12H	4H	23.4	24.2	24.0	24.8	25.3	25.9	26.6	26.4	27.2	27.7
	6H	24.0	24.6	24.5	25.2	25.8	27.0	27.7	27.6	28.2	28.8
	8H	24.2	24.8	24.8	25.3	26.0	27.6	28.2	28.2	28.8	29.4

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 3264.308 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.)