



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL75 UV FR 930 @1200MA.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 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-75-UV-PS1400-54-VDIM-LM2 LED driver set at 1200mA

[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	8941
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	58.6
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	17519	15588	15112
55	15261	13774	13384
65	12294	11570	11230
75	9029	9260	8799
85	5478	7522	6671

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1096.18	N.A.	12.30
0-30	2330.88	N.A.	26.10
0-40	3816.22	N.A.	42.70
0-60	6688.53	N.A.	74.80
0-80	8333.2	N.A.	93.20
0-90	8653.77	N.A.	96.80
10-90	8370.61	N.A.	93.60
20-40	2720.05	N.A.	30.40
20-50	4244.46	N.A.	47.50
40-70	3885.35	N.A.	43.50
60-80	1644.67	N.A.	18.40
70-80	631.63	N.A.	7.10
80-90	320.57	N.A.	3.60
90-110	215.35	N.A.	2.40
90-120	251.38	N.A.	2.80
90-130	270.44	N.A.	3.00
90-150	284.73	N.A.	3.20
90-180	287.24	N.A.	3.20
110-180	71.89	N.A.	0.80
0-180	8941.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	283.16
10-20	813.02
20-30	1234.7
30-40	1485.35
40-50	1524.41
50-60	1347.9
60-70	1013.04
70-80	631.63
80-90	320.57
90-100	145.35
100-110	70.00
110-120	36.03
120-130	19.06
130-140	9.75
140-150	4.54
150-160	1.95
160-170	0.56
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

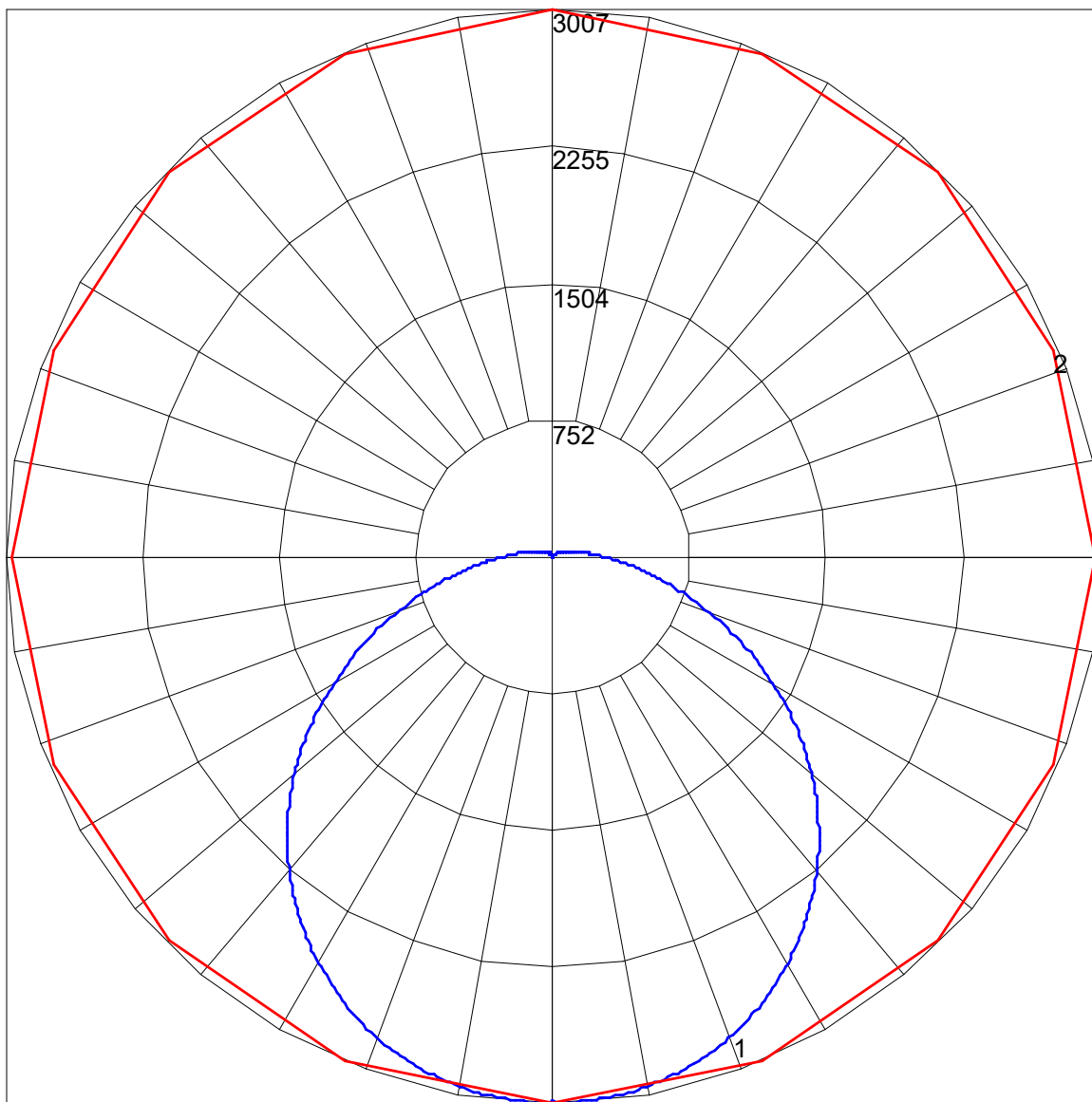
X=2H	Y=2H	19.7	21.3	20.1	21.7	22.1	21.8	23.4	22.2	23.7	24.1
	3H	20.9	22.4	21.4	22.8	23.2	23.8	25.2	24.2	25.6	26.0
	4H	21.3	22.6	21.7	23.0	23.5	24.6	26.0	25.1	26.4	26.8
	6H	21.5	22.7	21.9	23.2	23.6	25.4	26.7	25.9	27.1	27.6
	8H	21.5	22.7	22.0	23.2	23.6	25.8	27.0	26.3	27.4	27.9
	12H	21.5	22.7	22.0	23.1	23.6	26.2	27.3	26.7	27.8	28.3

### UGR Viewed Endwise

4H	2H	20.6	21.9	21.0	22.3	22.8	22.2	23.5	22.6	24.0	24.4
	3H	22.0	23.2	22.5	23.6	24.1	24.4	25.5	24.8	26.0	26.5
	4H	22.5	23.5	23.0	24.0	24.5	25.4	26.4	25.9	26.9	27.4
	6H	22.8	23.7	23.3	24.2	24.7	26.3	27.3	26.8	27.8	28.3
	8H	22.8	23.7	23.3	24.2	24.7	26.8	27.7	27.3	28.2	28.7
	12H	22.9	23.7	23.4	24.2	24.7	27.3	28.1	27.8	28.6	29.2
8H	4H	23.0	23.9	23.5	24.4	24.9	25.6	26.4	26.1	26.9	27.5
	6H	23.5	24.2	24.0	24.8	25.3	26.7	27.4	27.2	27.9	28.5
	8H	23.6	24.3	24.2	24.8	25.4	27.2	27.9	27.8	28.5	29.0
	12H	23.7	24.3	24.3	24.8	25.5	27.9	28.5	28.4	29.0	29.6
12H	4H	23.1	23.9	23.7	24.5	25.0	25.6	26.3	26.1	26.9	27.4
	6H	23.7	24.3	24.2	24.9	25.5	26.7	27.4	27.3	27.9	28.5
	8H	23.9	24.5	24.5	25.0	25.7	27.3	27.9	27.9	28.5	29.1

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 3007.075 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.)