



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL45 UV FR 935 @700MA.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 4 SEL45 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 3500K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set at 700mA

[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	5212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	34.9
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)	3.84 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	20204	18037	17570
55	17541	15914	15561
65	14051	13339	13057
75	10195	10640	10230
85	5868	8584	7756

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	638.96	N.A.	12.30
0-30	1358.67	N.A.	26.10
0-40	2224.48	N.A.	42.70
0-60	3898.75	N.A.	74.80
0-80	4857.43	N.A.	93.20
0-90	5044.29	N.A.	96.80
10-90	4879.24	N.A.	93.60
20-40	1585.52	N.A.	30.40
20-50	2474.1	N.A.	47.50
40-70	2264.78	N.A.	43.50
60-80	958.68	N.A.	18.40
70-80	368.18	N.A.	7.10
80-90	186.86	N.A.	3.60
90-110	125.53	N.A.	2.40
90-120	146.53	N.A.	2.80
90-130	157.64	N.A.	3.00
90-150	165.97	N.A.	3.20
90-180	167.43	N.A.	3.20
110-180	41.90	N.A.	0.80
0-180	5211.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.05
10-20	473.91
20-30	719.71
30-40	865.81
40-50	888.58
50-60	785.69
60-70	590.50
70-80	368.18
80-90	186.86
90-100	84.72
100-110	40.80
110-120	21.00
120-130	11.11
130-140	5.68
140-150	2.65
150-160	1.13
160-170	0.33
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

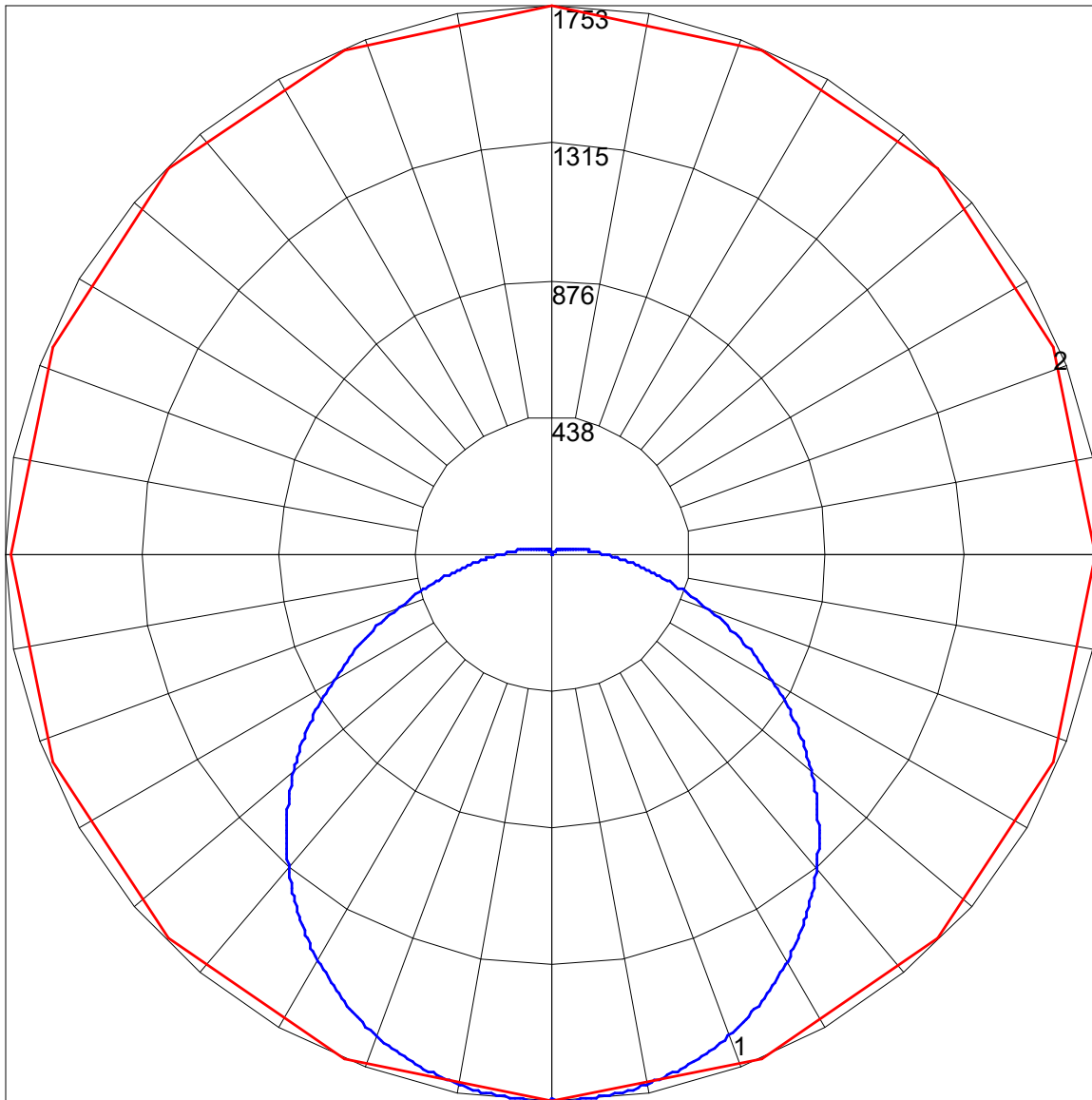
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**UGR TABLE - CORRECTED**

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	20.2	21.8	20.6	22.2	22.6	22.2	23.8	22.6	24.2	24.6
	3H	21.4	22.9	21.9	23.2	23.7	24.2	25.6	24.6	26.0	26.5
	4H	21.8	23.1	22.2	23.5	24.0	25.1	26.4	25.5	26.8	27.3
	6H	22.0	23.2	22.4	23.7	24.1	25.8	27.1	26.3	27.5	28.0
	8H	22.0	23.2	22.5	23.7	24.1	26.2	27.4	26.7	27.9	28.3
	12H	22.0	23.2	22.5	23.6	24.1	26.6	27.7	27.1	28.2	28.7
4H	2H	21.1	22.4	21.5	22.8	23.3	22.7	24.0	23.1	24.4	24.9
	3H	22.5	23.6	22.9	24.1	24.6	24.8	26.0	25.3	26.4	26.9
	4H	23.0	24.0	23.4	24.5	25.0	25.8	26.9	26.3	27.3	27.8
	6H	23.3	24.2	23.8	24.7	25.2	26.8	27.7	27.3	28.2	28.7
	8H	23.3	24.2	23.8	24.7	25.2	27.2	28.1	27.7	28.6	29.1
	12H	23.4	24.1	23.9	24.7	25.2	27.7	28.5	28.2	29.0	29.6
8H	4H	23.5	24.4	24.0	24.9	25.4	26.0	26.9	26.5	27.4	27.9
	6H	24.0	24.7	24.5	25.2	25.8	27.1	27.8	27.6	28.4	28.9
	8H	24.1	24.8	24.6	25.3	25.9	27.7	28.3	28.2	28.9	29.4
	12H	24.2	24.8	24.7	25.3	25.9	28.3	28.9	28.8	29.4	30.0
12H	4H	23.6	24.4	24.1	24.9	25.5	26.0	26.8	26.5	27.3	27.9
	6H	24.2	24.8	24.7	25.3	25.9	27.1	27.8	27.7	28.3	28.9
	8H	24.4	25.0	24.9	25.5	26.1	27.8	28.3	28.3	28.9	29.5

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 1752.827 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.)