



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SEL45 UV FR 930 @850MA.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 930

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 3000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set at 850mA

[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	6223
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	42.9
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	24125	21538	20980
55	20945	19003	18581
65	16778	15928	15591
75	12174	12705	12216
85	7007	10250	9261

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	762.99	N.A.	12.30
0-30	1622.39	N.A.	26.10
0-40	2656.26	N.A.	42.70
0-60	4655.52	N.A.	74.80
0-80	5800.28	N.A.	93.20
0-90	6023.41	N.A.	96.80
10-90	5826.32	N.A.	93.60
20-40	1893.27	N.A.	30.40
20-50	2954.33	N.A.	47.50
40-70	2704.38	N.A.	43.50
60-80	1144.76	N.A.	18.40
70-80	439.64	N.A.	7.10
80-90	223.13	N.A.	3.60
90-110	149.89	N.A.	2.40
90-120	174.97	N.A.	2.80
90-130	188.24	N.A.	3.00
90-150	198.19	N.A.	3.20
90-180	199.93	N.A.	3.20
110-180	50.04	N.A.	0.80
0-180	6223.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	197.09
10-20	565.90
20-30	859.41
30-40	1033.87
40-50	1061.06
50-60	938.20
60-70	705.12
70-80	439.64
80-90	223.13
90-100	101.17
100-110	48.72
110-120	25.08
120-130	13.26
130-140	6.79
140-150	3.16
150-160	1.35
160-170	0.39
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

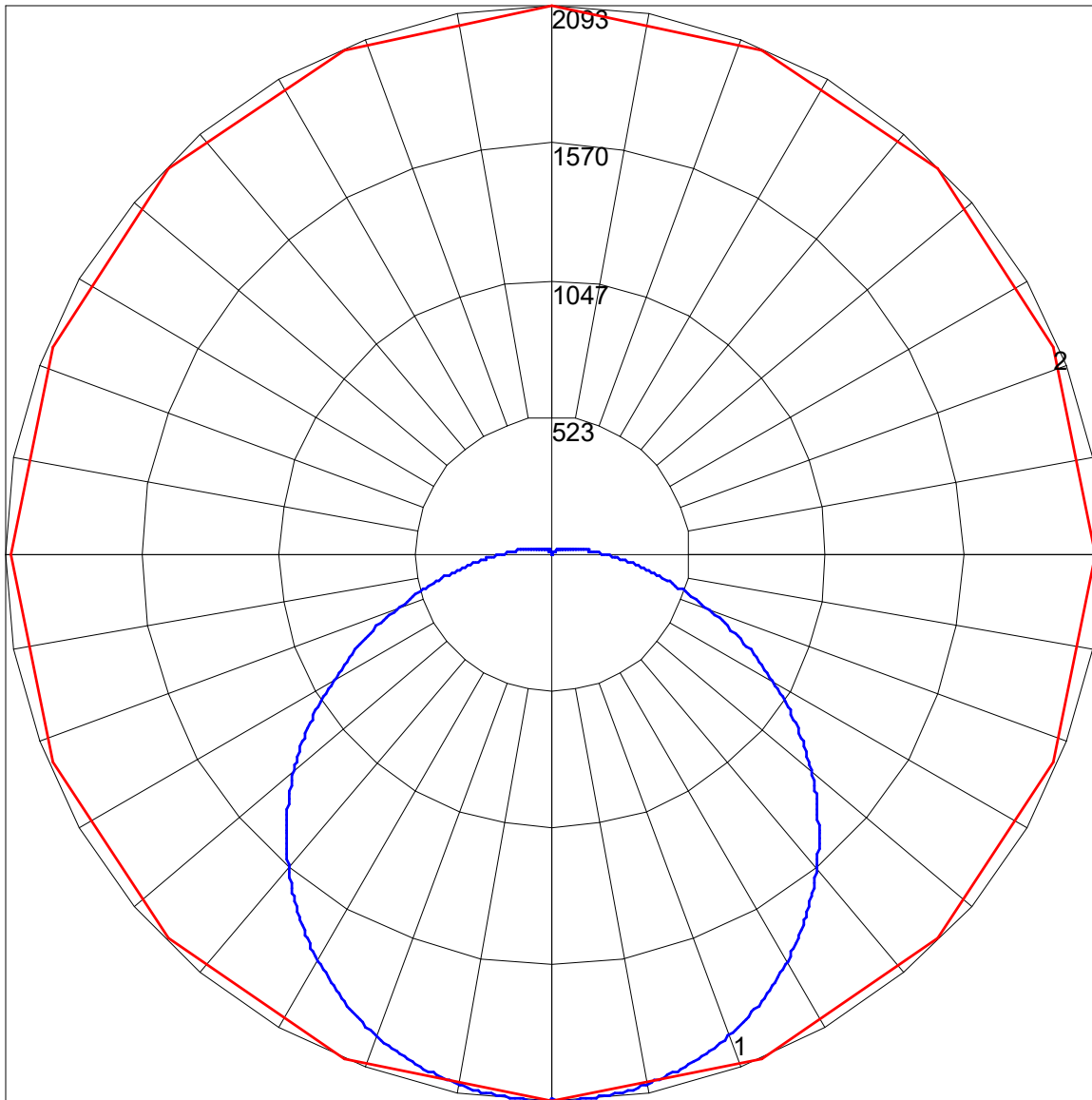
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UGR TABLE - CORRECTED

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	20.9	22.5	21.3	22.9	23.3	22.9	24.5	23.3	24.9	25.3
	3H	22.1	23.6	22.6	23.9	24.4	24.9	26.3	25.3	26.7	27.2
	4H	22.5	23.8	22.9	24.2	24.7	25.8	27.1	26.2	27.5	28.0
	6H	22.7	23.9	23.1	24.4	24.8	26.5	27.8	27.0	28.2	28.7
	8H	22.7	23.9	23.2	24.4	24.8	26.9	28.1	27.4	28.6	29.0
	12H	22.7	23.9	23.2	24.3	24.8	27.3	28.4	27.8	28.9	29.4
4H	2H	21.8	23.1	22.2	23.5	24.0	23.4	24.7	23.8	25.1	25.6
	3H	23.2	24.3	23.6	24.8	25.3	25.5	26.7	26.0	27.1	27.6
	4H	23.7	24.7	24.1	25.2	25.7	26.5	27.6	27.0	28.0	28.5
	6H	24.0	24.9	24.5	25.4	25.9	27.5	28.4	28.0	28.9	29.4
	8H	24.0	24.9	24.5	25.4	25.9	27.9	28.8	28.4	29.3	29.8
	12H	24.1	24.8	24.6	25.4	25.9	28.4	29.2	28.9	29.7	30.3
8H	4H	24.2	25.1	24.7	25.6	26.1	26.7	27.6	27.2	28.1	28.6
	6H	24.7	25.4	25.2	25.9	26.5	27.8	28.5	28.3	29.1	29.6
	8H	24.8	25.5	25.3	26.0	26.6	28.4	29.0	28.9	29.6	30.1
	12H	24.9	25.5	25.4	26.0	26.6	29.0	29.6	29.5	30.1	30.7
12H	4H	24.3	25.1	24.8	25.6	26.2	26.7	27.5	27.2	28.0	28.6
	6H	24.9	25.5	25.4	26.0	26.6	27.8	28.5	28.4	29.0	29.6
	8H	25.1	25.7	25.6	26.2	26.8	28.5	29.0	29.0	29.6	30.2

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 2093.059 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.)