



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 SH UV FR 930.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 5/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL N G2 4 SH UV FR 930

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

[MORE] translucent curved plastic enclosure.

[LAMP] 128 white LEDs on two LS3873A LED boards

[BALLAST] One ULT D21CC80UNVPW-C LED driver labeled as 1420mA

[OTHER] 120.0Vac, 60.00Hz, 0.6058A, 72.53W, 0.998PF, 6.0%THD(i)

[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	10105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	72.5
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	39174	34973	34067
55	34010	30856	30172
65	27244	25864	25316
75	19768	20630	19836
85	11378	16644	15038

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1238.9	N.A.	12.30
0-30	2634.37	N.A.	26.10
0-40	4313.12	N.A.	42.70
0-60	7559.42	N.A.	74.80
0-80	9418.23	N.A.	93.20
0-90	9780.54	N.A.	96.80
10-90	9460.52	N.A.	93.60
20-40	3074.21	N.A.	30.40
20-50	4797.11	N.A.	47.50
40-70	4391.25	N.A.	43.50
60-80	1858.81	N.A.	18.40
70-80	713.87	N.A.	7.10
80-90	362.31	N.A.	3.60
90-110	243.39	N.A.	2.40
90-120	284.12	N.A.	2.80
90-130	305.65	N.A.	3.00
90-150	321.81	N.A.	3.20
90-180	324.64	N.A.	3.20
110-180	81.25	N.A.	0.80
0-180	10105.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	320.02
10-20	918.88
20-30	1395.47
30-40	1678.75
40-50	1722.9
50-60	1523.41
60-70	1144.94
70-80	713.87
80-90	362.31
90-100	164.27
100-110	79.12
110-120	40.73
120-130	21.54
130-140	11.02
140-150	5.13
150-160	2.20
160-170	0.63
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

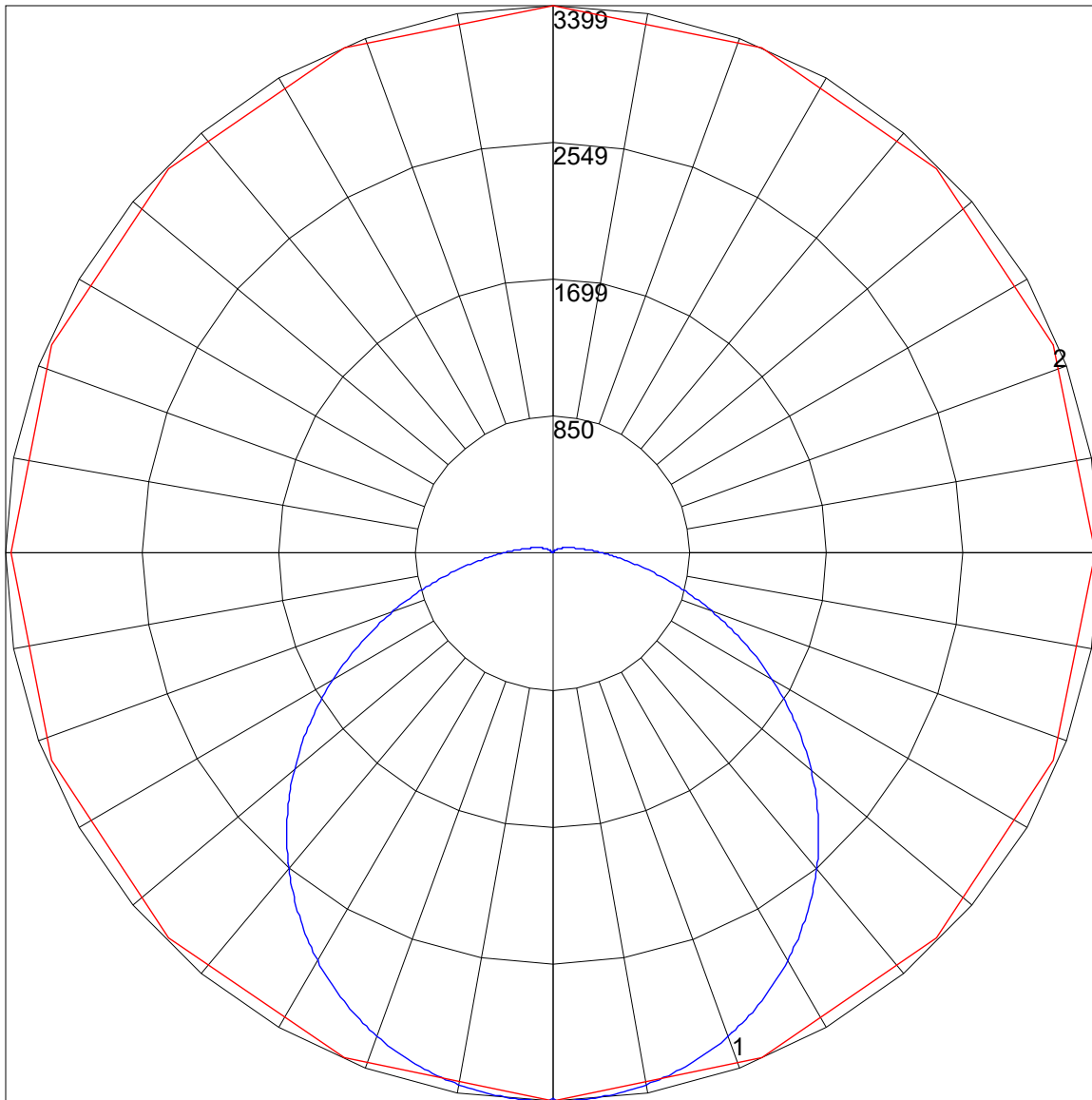
Reflectances

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	22.5	24.1	22.9	24.5	24.9	24.5	26.1	24.9	26.5	26.9
	3H	23.7	25.2	24.2	25.5	26.0	26.5	27.9	26.9	28.3	28.8
	4H	24.1	25.4	24.5	25.8	26.3	27.4	28.7	27.8	29.1	29.6
	6H	24.3	25.5	24.7	26.0	26.4	28.1	29.4	28.6	29.8	30.3
	8H	24.3	25.5	24.8	26.0	26.4	28.5	29.7	29.0	30.2	30.6
	12H	24.3	25.5	24.8	25.9	26.4	28.9	30.0	29.4	30.5	31.0
4H	2H	23.4	24.7	23.8	25.1	25.6	25.0	26.3	25.4	26.7	27.2
	3H	24.8	25.9	25.2	26.4	26.9	27.1	28.3	27.6	28.7	29.2
	4H	25.3	26.3	25.7	26.8	27.3	28.1	29.2	28.6	29.6	30.1
	6H	25.6	26.5	26.1	27.0	27.5	29.1	30.0	29.6	30.5	31.0
	8H	25.6	26.5	26.1	27.0	27.5	29.5	30.4	30.0	30.9	31.4
	12H	25.7	26.4	26.2	27.0	27.5	30.0	30.8	30.5	31.3	31.9
8H	4H	25.8	26.7	26.3	27.2	27.7	28.3	29.2	28.8	29.7	30.2
	6H	26.3	27.0	26.8	27.5	28.1	29.4	30.1	29.9	30.7	31.2
	8H	26.4	27.1	26.9	27.6	28.2	30.0	30.6	30.5	31.2	31.7
	12H	26.5	27.1	27.0	27.6	28.2	30.6	31.2	31.1	31.7	32.3
12H	4H	25.9	26.7	26.4	27.2	27.8	28.3	29.1	28.8	29.6	30.2
	6H	26.5	27.1	27.0	27.6	28.2	29.4	30.1	30.0	30.6	31.2
	8H	26.7	27.3	27.2	27.8	28.4	30.1	30.6	30.6	31.2	31.8

Maximum UGR = 32.3

POLAR GRAPH



Maximum Candela = 3398.614 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.)