



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 MD UV 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/1/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 4 MD UV 940

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

[MORE] no enclosure.

[LAMP] 56 white LEDs on two LS3872A LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver labeled as 640mA

[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	4442
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	29.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10558	10204	10139
55	10378	9899	9626
65	9808	9007	8679
75	8355	7066	6615
85	4692	3173	2852

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	543.24	N.A.	12.20
0-30	1163.34	N.A.	26.20
0-40	1926.04	N.A.	43.40
0-60	3484.75	N.A.	78.50
0-80	4370.04	N.A.	98.40
0-90	4441.4	N.A.	100.00
10-90	4301.55	N.A.	96.80
20-40	1382.81	N.A.	31.10
20-50	2193.46	N.A.	49.40
40-70	2131.07	N.A.	48.00
60-80	885.29	N.A.	19.90
70-80	312.92	N.A.	7.00
80-90	71.37	N.A.	1.60
90-110	0.39	N.A.	0.00
90-120	0.39	N.A.	0.00
90-130	0.39	N.A.	0.00
90-150	0.39	N.A.	0.00
90-180	0.39	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4441.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.85
10-20	403.39
20-30	620.11
30-40	762.70
40-50	810.65
50-60	748.05
60-70	572.37
70-80	312.92
80-90	71.37
90-100	0.39
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

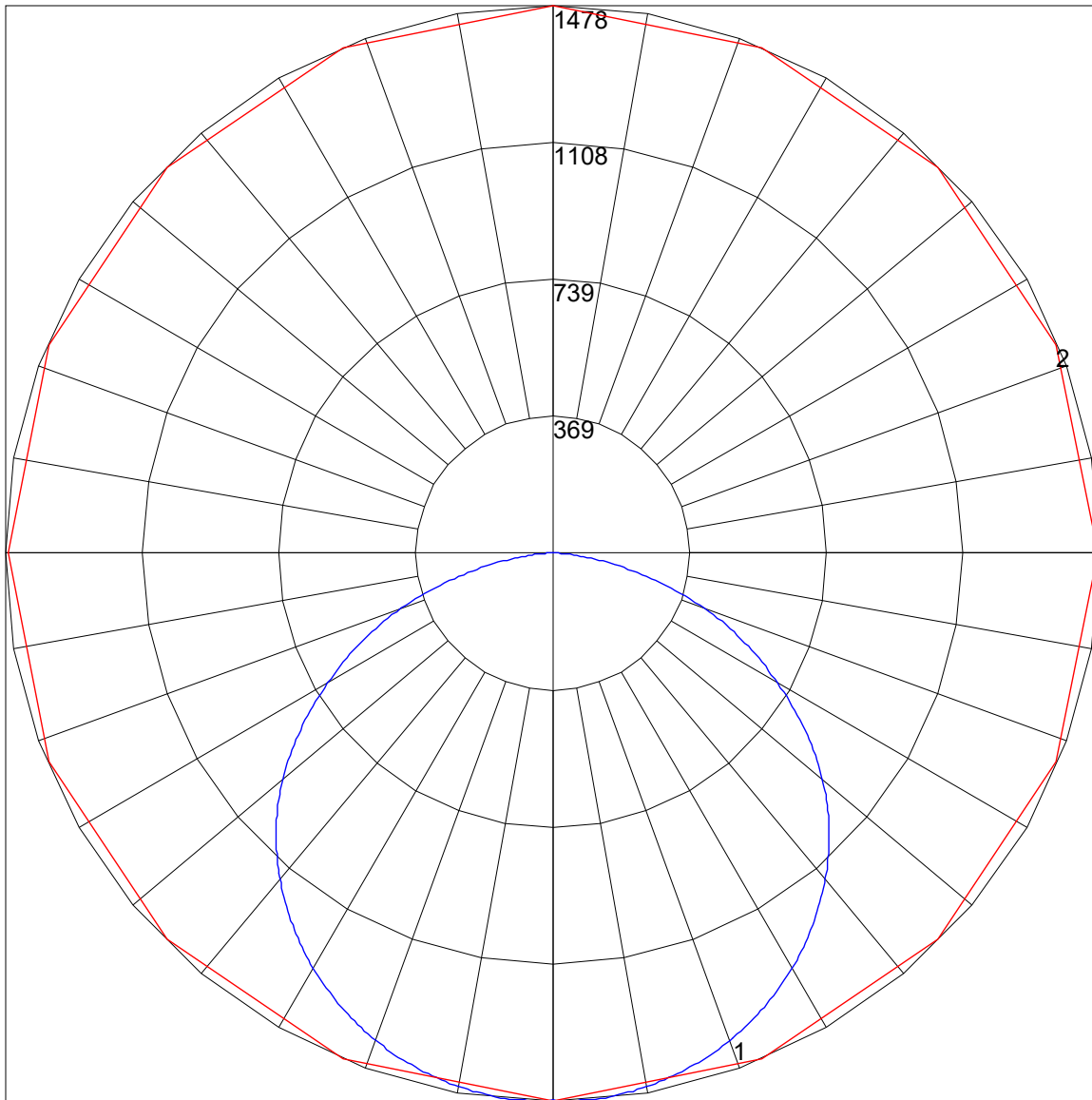
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UGR TABLE - CORRECTED

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	21.9	20.6	22.2	22.5	20.3	22.0	20.7	22.3	22.6
	3H	22.0	23.5	22.4	23.8	24.2	22.1	23.6	22.5	24.0	24.3
	4H	22.6	24.0	23.0	24.4	24.7	22.7	24.1	23.1	24.5	24.9
	6H	23.0	24.3	23.4	24.7	25.1	23.1	24.4	23.5	24.8	25.2
	8H	23.1	24.3	23.5	24.7	25.1	23.2	24.5	23.6	24.8	25.2
	12H	23.1	24.3	23.5	24.7	25.1	23.2	24.5	23.7	24.8	25.3
4H	2H	20.9	22.3	21.3	22.6	23.0	21.0	22.4	21.4	22.7	23.1
	3H	22.8	24.0	23.2	24.4	24.8	22.9	24.1	23.3	24.5	24.9
	4H	23.6	24.6	24.0	25.0	25.5	23.6	24.7	24.0	25.1	25.5
	6H	24.1	25.0	24.5	25.4	25.9	24.1	25.0	24.6	25.5	25.9
	8H	24.2	25.0	24.6	25.5	26.0	24.2	25.1	24.7	25.6	26.0
	12H	24.2	25.0	24.7	25.5	26.0	24.3	25.1	24.8	25.6	26.1
8H	4H	23.8	24.7	24.3	25.1	25.6	23.9	24.8	24.3	25.2	25.7
	6H	24.4	25.1	24.9	25.6	26.1	24.4	25.2	24.9	25.7	26.1
	8H	24.5	25.2	25.1	25.7	26.2	24.6	25.3	25.1	25.8	26.3
	12H	24.7	25.2	25.2	25.7	26.3	24.7	25.3	25.2	25.8	26.4
12H	4H	23.8	24.6	24.3	25.1	25.6	23.9	24.7	24.4	25.2	25.6
	6H	24.4	25.1	24.9	25.5	26.1	24.5	25.1	25.0	25.6	26.1
	8H	24.6	25.2	25.1	25.7	26.2	24.7	25.3	25.2	25.7	26.3

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1477.697 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)