



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 MD UV FR 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/1/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 4 MD UV FR 940

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

[MORE] translucent curved plastic 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	4226
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	29.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8902	8570	8562
55	7759	7777	7864
65	6236	6800	6942
75	4526	5812	5877
85	2596	5408	5155

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	525.38	N.A.	12.40
0-30	1117.26	N.A.	26.40
0-40	1829.41	N.A.	43.30
0-60	3206.83	N.A.	75.90
0-80	3997.49	N.A.	94.60
0-90	4150.3	N.A.	98.20
10-90	4014.63	N.A.	95.00
20-40	1304.03	N.A.	30.90
20-50	2034.74	N.A.	48.20
40-70	1864.3	N.A.	44.10
60-80	790.67	N.A.	18.70
70-80	303.79	N.A.	7.20
80-90	152.80	N.A.	3.60
90-110	75.32	N.A.	1.80
90-120	75.48	N.A.	1.80
90-130	75.48	N.A.	1.80
90-150	75.48	N.A.	1.80
90-180	75.48	N.A.	1.80
110-180	0.15	N.A.	0.00
0-180	4225.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.66
10-20	389.71
20-30	591.89
30-40	712.14
40-50	730.71
50-60	646.71
60-70	486.88
70-80	303.79
80-90	152.80
90-100	61.25
100-110	14.07
110-120	0.15
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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	60	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	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	35	29	25	23

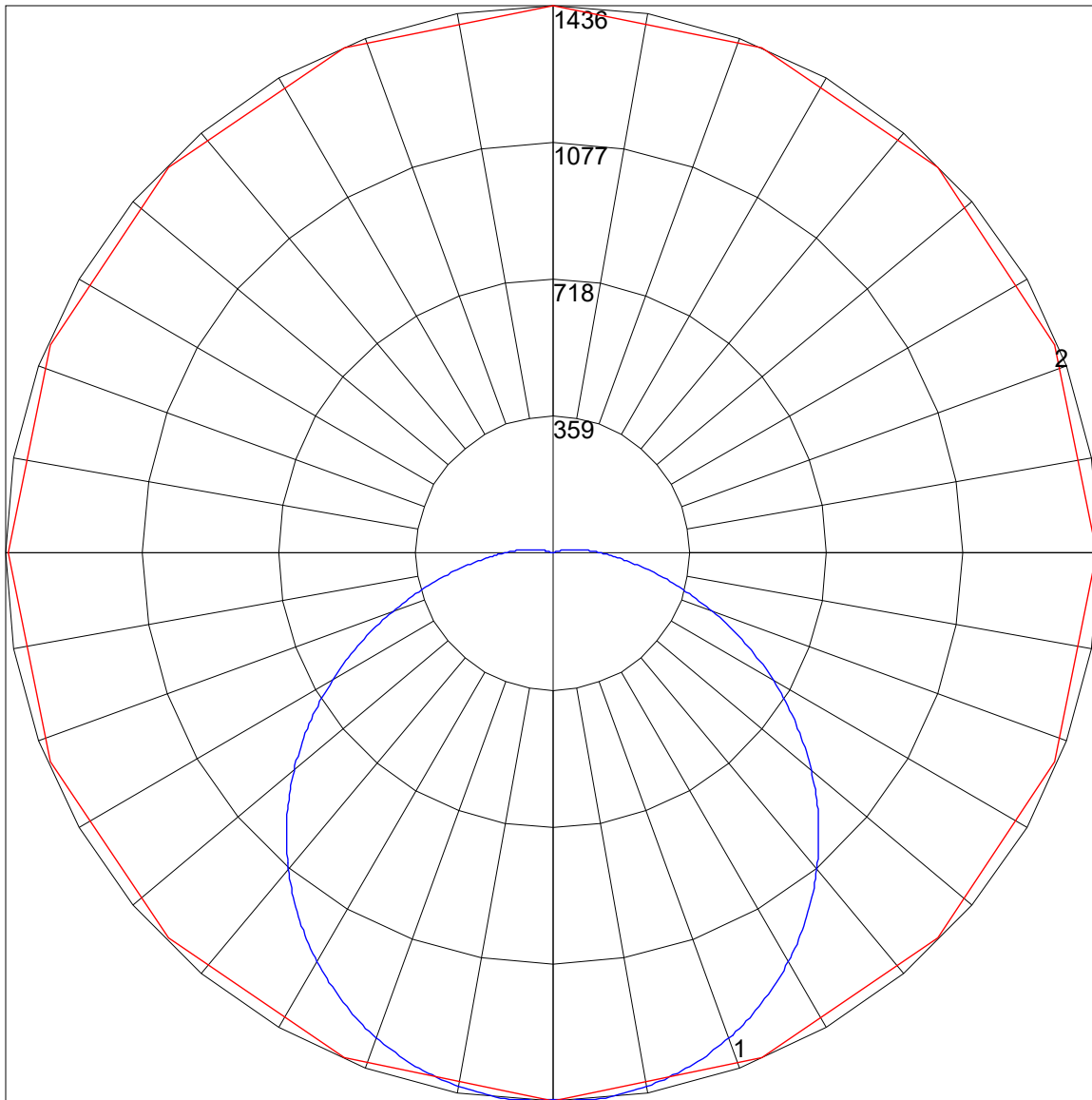
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UGR TABLE - CORRECTED

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	18.0	19.6	18.4	20.0	20.3	19.7	21.3	20.1	21.6	22.0
	3H	19.3	20.8	19.7	21.1	21.5	21.7	23.1	22.1	23.5	23.9
	4H	19.7	21.1	20.1	21.5	21.9	22.5	23.9	22.9	24.3	24.7
	6H	19.9	21.2	20.4	21.6	22.0	23.3	24.6	23.7	25.0	25.4
	8H	20.0	21.2	20.4	21.6	22.1	23.7	24.9	24.1	25.3	25.8
	12H	20.0	21.2	20.5	21.6	22.1	24.1	25.2	24.5	25.6	26.1
4H	2H	18.8	20.2	19.3	20.6	21.0	20.1	21.5	20.6	21.9	22.3
	3H	20.4	21.5	20.8	22.0	22.4	22.4	23.5	22.8	24.0	24.4
	4H	20.9	22.0	21.4	22.4	22.9	23.4	24.4	23.8	24.9	25.4
	6H	21.2	22.2	21.7	22.7	23.2	24.3	25.3	24.8	25.7	26.2
	8H	21.3	22.2	21.8	22.7	23.2	24.8	25.7	25.3	26.1	26.6
	12H	21.4	22.2	21.9	22.7	23.2	25.3	26.1	25.8	26.6	27.1
8H	4H	21.5	22.3	21.9	22.8	23.3	23.6	24.5	24.1	24.9	25.5
	6H	22.0	22.7	22.5	23.2	23.8	24.7	25.5	25.2	26.0	26.5
	8H	22.2	22.8	22.7	23.3	23.9	25.3	26.0	25.9	26.5	27.0
	12H	22.3	22.8	22.8	23.4	24.0	25.9	26.5	26.5	27.1	27.7
12H	4H	21.6	22.4	22.1	22.9	23.4	23.6	24.4	24.1	24.9	25.4
	6H	22.2	22.9	22.8	23.4	23.9	24.8	25.4	25.3	25.9	26.5
	8H	22.4	23.0	23.0	23.6	24.2	25.4	26.0	25.9	26.5	27.1

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 1435.997 Located At Horizontal Angle = 90, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)