



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 MH 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 MH UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMP] 96 white LEDs on two LS3872A LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver labeled as 670mA

[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	5196
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	34.2
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	10945	10537	10527
55	9540	9562	9669
65	7668	8362	8535
75	5565	7146	7226
85	3192	6650	6338

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	645.99	N.A.	12.40
0-30	1373.77	N.A.	26.40
0-40	2249.41	N.A.	43.30
0-60	3943.06	N.A.	75.90
0-80	4915.26	N.A.	94.60
0-90	5103.14	N.A.	98.20
10-90	4936.33	N.A.	95.00
20-40	1603.41	N.A.	30.90
20-50	2501.88	N.A.	48.20
40-70	2292.31	N.A.	44.10
60-80	972.19	N.A.	18.70
70-80	373.54	N.A.	7.20
80-90	187.88	N.A.	3.60
90-110	92.62	N.A.	1.80
90-120	92.80	N.A.	1.80
90-130	92.80	N.A.	1.80
90-150	92.80	N.A.	1.80
90-180	92.80	N.A.	1.80
110-180	0.19	N.A.	0.00
0-180	5195.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.81
10-20	479.18
20-30	727.78
30-40	875.64
40-50	898.47
50-60	795.18
60-70	598.66
70-80	373.54
80-90	187.88
90-100	75.31
100-110	17.30
110-120	0.19
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

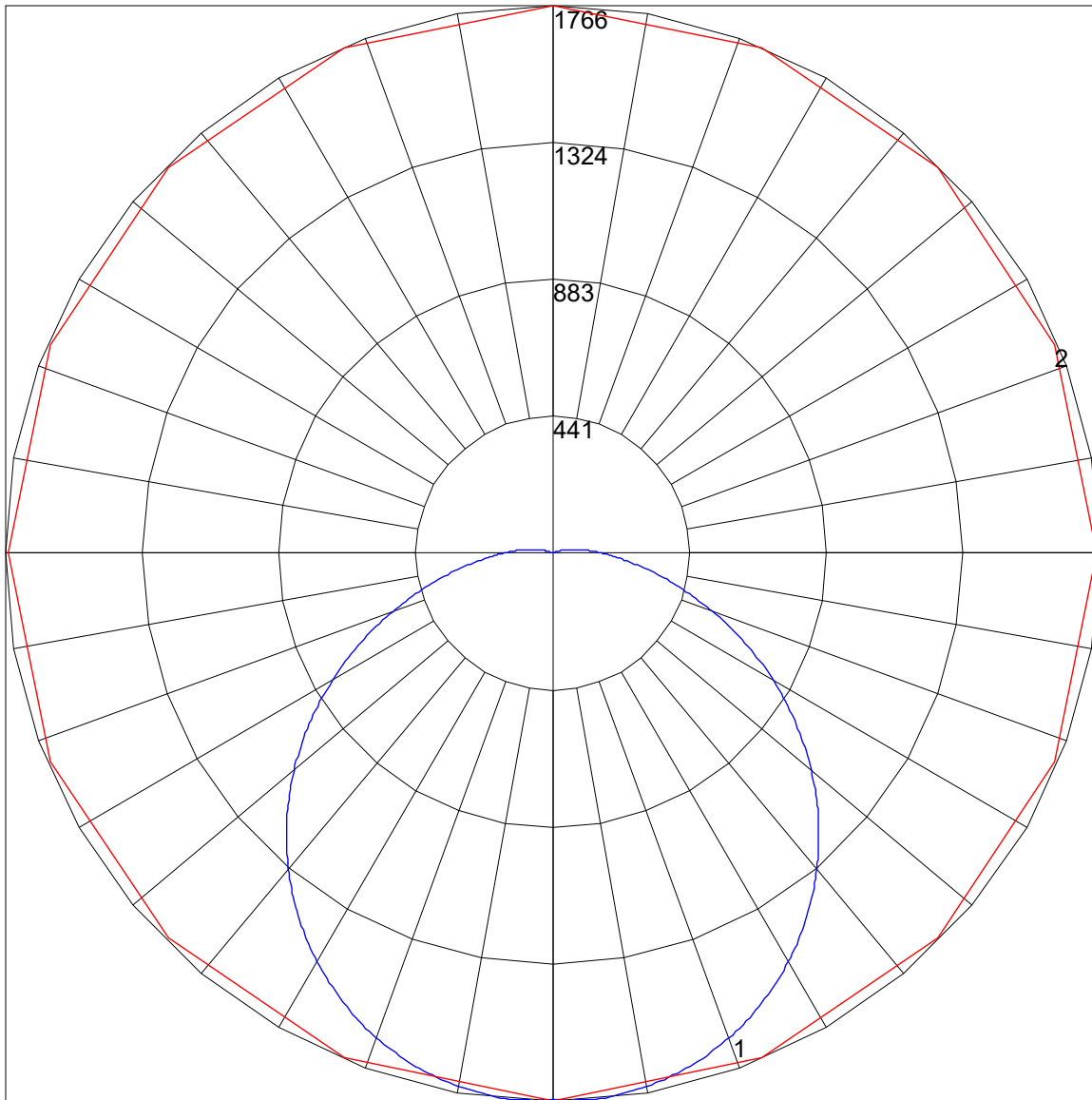
Reflectances

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	18.7	20.3	19.1	20.7	21.0	20.4	22.0	20.8	22.3	22.7
	3H	20.0	21.5	20.4	21.8	22.2	22.4	23.8	22.8	24.2	24.6
	4H	20.4	21.8	20.8	22.2	22.6	23.2	24.6	23.6	25.0	25.4
	6H	20.6	21.9	21.1	22.3	22.7	24.0	25.3	24.4	25.7	26.1
	8H	20.7	21.9	21.1	22.3	22.8	24.4	25.6	24.8	26.0	26.5
	12H	20.7	21.9	21.2	22.3	22.8	24.8	25.9	25.2	26.3	26.8
4H	2H	19.5	20.9	20.0	21.3	21.7	20.8	22.2	21.3	22.6	23.0
	3H	21.1	22.2	21.5	22.7	23.1	23.1	24.2	23.5	24.7	25.1
	4H	21.6	22.7	22.1	23.1	23.6	24.1	25.1	24.5	25.6	26.1
	6H	21.9	22.9	22.4	23.4	23.9	25.0	26.0	25.5	26.4	26.9
	8H	22.0	22.9	22.5	23.4	23.9	25.5	26.4	26.0	26.8	27.3
	12H	22.1	22.9	22.6	23.4	23.9	26.0	26.8	26.5	27.3	27.8
8H	4H	22.2	23.0	22.6	23.5	24.0	24.3	25.2	24.8	25.6	26.2
	6H	22.7	23.4	23.2	23.9	24.5	25.4	26.2	25.9	26.7	27.2
	8H	22.9	23.5	23.4	24.0	24.6	26.0	26.7	26.5	27.2	27.7
	12H	23.0	23.5	23.5	24.1	24.7	26.6	27.2	27.2	27.8	28.4
12H	4H	22.3	23.1	22.8	23.6	24.1	24.3	25.1	24.8	25.6	26.1
	6H	22.9	23.6	23.5	24.1	24.6	25.5	26.1	26.0	26.6	27.2
	8H	23.1	23.7	23.7	24.3	24.9	26.1	26.7	26.6	27.2	27.8

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 1765.679 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.)