



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 MH UV FR 930.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 930

[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	5054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	10646	10250	10240
55	9280	9301	9405
65	7458	8133	8302
75	5413	6951	7029
85	3105	6468	6165

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	628.36	N.A.	12.40
0-30	1336.27	N.A.	26.40
0-40	2188.00	N.A.	43.30
0-60	3835.42	N.A.	75.90
0-80	4781.07	N.A.	94.60
0-90	4963.82	N.A.	98.20
10-90	4801.57	N.A.	95.00
20-40	1559.64	N.A.	30.90
20-50	2433.58	N.A.	48.20
40-70	2229.73	N.A.	44.10
60-80	945.65	N.A.	18.70
70-80	363.34	N.A.	7.20
80-90	182.75	N.A.	3.60
90-110	90.09	N.A.	1.80
90-120	90.27	N.A.	1.80
90-130	90.27	N.A.	1.80
90-150	90.27	N.A.	1.80
90-180	90.27	N.A.	1.80
110-180	0.18	N.A.	0.00
0-180	5054.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.26
10-20	466.10
20-30	707.91
30-40	851.73
40-50	873.94
50-60	773.48
60-70	582.31
70-80	363.34
80-90	182.75
90-100	73.26
100-110	16.83
110-120	0.18
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

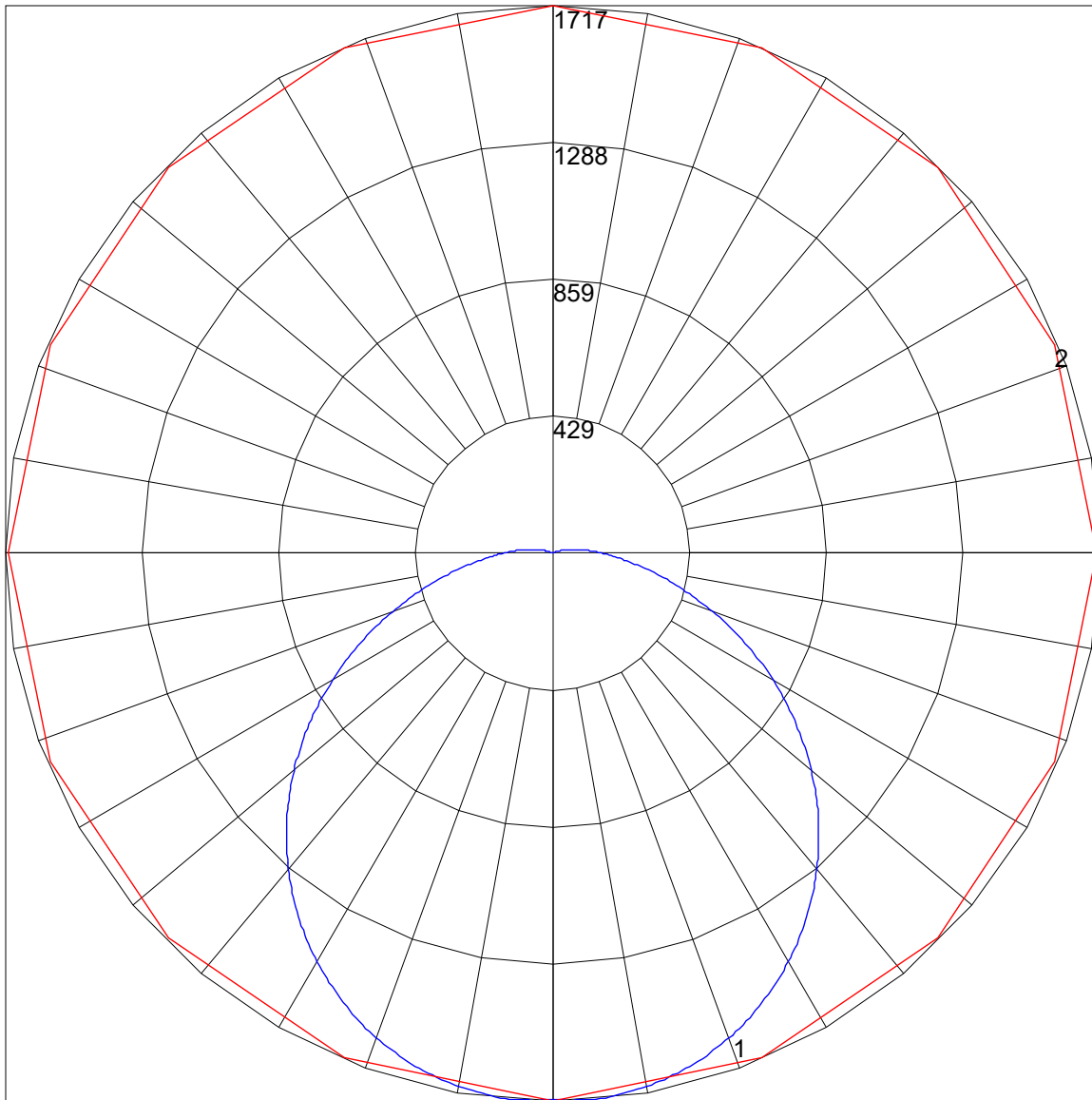
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**UGR TABLE - CORRECTED**

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	18.6	20.2	19.0	20.6	20.9	20.3	21.9	20.7	22.2	22.6
	3H	19.9	21.4	20.3	21.7	22.1	22.3	23.7	22.7	24.1	24.5
	4H	20.3	21.7	20.7	22.1	22.5	23.1	24.5	23.5	24.9	25.3
	6H	20.5	21.8	21.0	22.2	22.6	23.9	25.2	24.3	25.6	26.0
	8H	20.6	21.8	21.0	22.2	22.7	24.3	25.5	24.7	25.9	26.4
	12H	20.6	21.8	21.1	22.2	22.7	24.7	25.8	25.1	26.2	26.7
4H	2H	19.4	20.8	19.9	21.2	21.6	20.7	22.1	21.2	22.5	22.9
	3H	21.0	22.1	21.4	22.6	23.0	23.0	24.1	23.4	24.6	25.0
	4H	21.5	22.6	22.0	23.0	23.5	24.0	25.0	24.4	25.5	26.0
	6H	21.8	22.8	22.3	23.3	23.8	24.9	25.9	25.4	26.3	26.8
	8H	21.9	22.8	22.4	23.3	23.8	25.4	26.3	25.9	26.7	27.2
	12H	22.0	22.8	22.5	23.3	23.8	25.9	26.7	26.4	27.2	27.7
8H	4H	22.1	22.9	22.5	23.4	23.9	24.2	25.1	24.7	25.5	26.1
	6H	22.6	23.3	23.1	23.8	24.4	25.3	26.1	25.8	26.6	27.1
	8H	22.8	23.4	23.3	23.9	24.5	25.9	26.6	26.4	27.1	27.6
	12H	22.9	23.4	23.4	24.0	24.6	26.5	27.1	27.1	27.7	28.3
12H	4H	22.2	23.0	22.7	23.5	24.0	24.2	25.0	24.7	25.5	26.0
	6H	22.8	23.5	23.4	24.0	24.5	25.4	26.0	25.9	26.5	27.1
	8H	23.0	23.6	23.6	24.2	24.8	26.0	26.6	26.5	27.1	27.7

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1717.476 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.)