



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 MH UV 935.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 8 MH UV 935

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

[MORE] no enclosure.

[LAMP] 192 white LEDs on four LS3872A LED boards

[BALLAST] One ULT D21CC80UNVPW-D LED driver labeled as 1360mA

[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	10823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	68.1
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)	8.00 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	12896	12454	12352
55	12691	12090	11728
65	12016	11013	10574
75	10278	8661	8059
85	5883	3921	3475

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1323.65	N.A.	12.20
0-30	2834.6	N.A.	26.20
0-40	4692.99	N.A.	43.40
0-60	8490.91	N.A.	78.50
0-80	10648.00	N.A.	98.40
0-90	10821.89	N.A.	100.00
10-90	10481.13	N.A.	96.80
20-40	3369.34	N.A.	31.10
20-50	5344.57	N.A.	49.40
40-70	5192.54	N.A.	48.00
60-80	2157.09	N.A.	19.90
70-80	762.47	N.A.	7.00
80-90	173.89	N.A.	1.60
90-110	0.95	N.A.	0.00
90-120	0.95	N.A.	0.00
90-130	0.95	N.A.	0.00
90-150	0.95	N.A.	0.00
90-180	0.95	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10822.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	340.76
10-20	982.89
20-30	1510.95
30-40	1858.39
40-50	1975.23
50-60	1822.69
60-70	1394.62
70-80	762.47
80-90	173.89
90-100	0.95
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	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	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

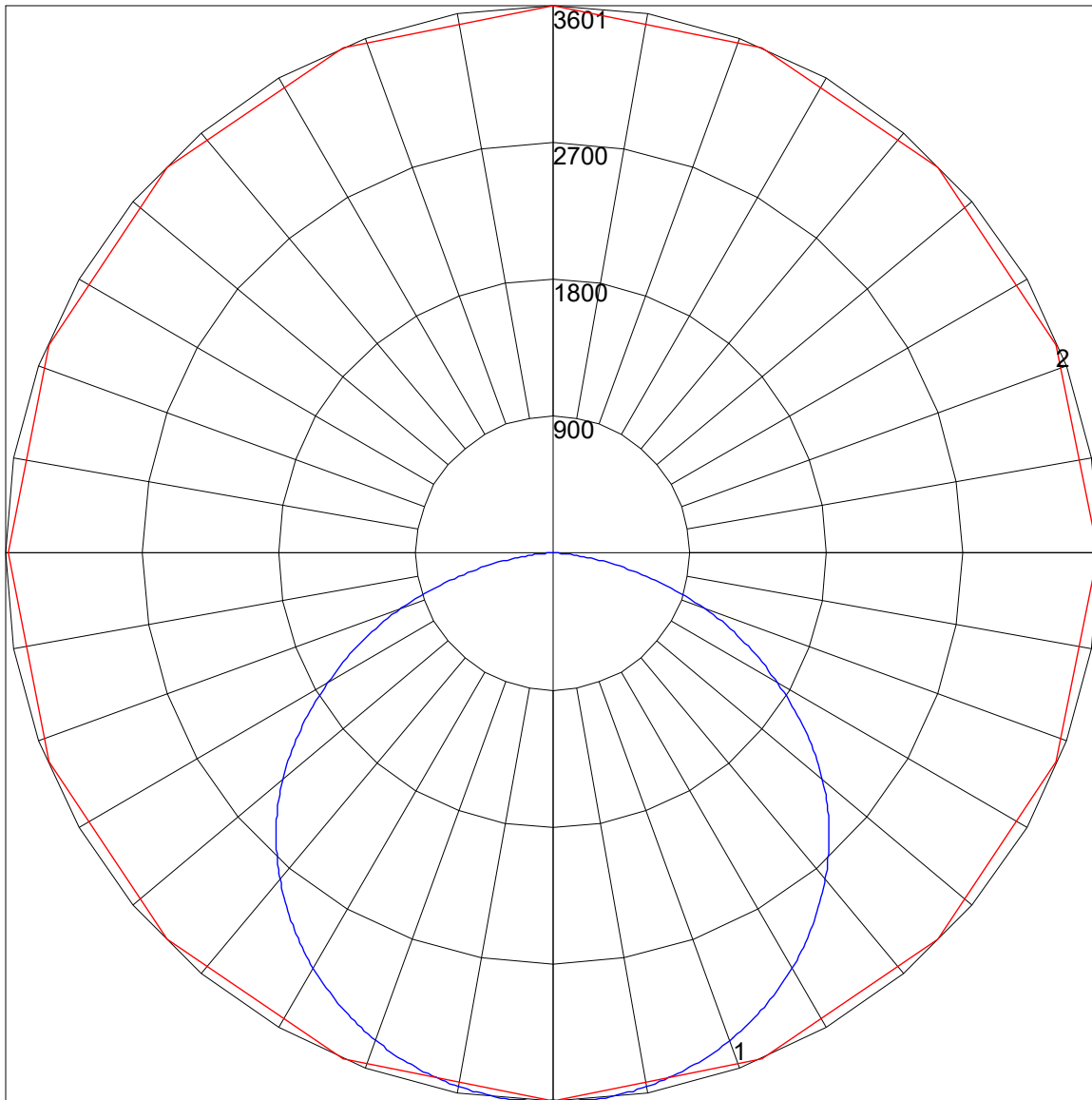
Room Size      UGR Viewed Crosswise

UGR Viewed Endwise

X=2H	Y=2H	20.9	22.6	21.3	22.9	23.2	21.0	22.7	21.4	23.0	23.3
	3H	22.7	24.2	23.1	24.5	24.9	22.8	24.3	23.2	24.7	25.0
	4H	23.3	24.7	23.7	25.1	25.4	23.4	24.8	23.8	25.2	25.6
	6H	23.7	25.0	24.1	25.4	25.8	23.8	25.1	24.2	25.5	25.9
	8H	23.8	25.0	24.2	25.4	25.8	23.9	25.2	24.4	25.6	26.0
	12H	23.8	25.0	24.2	25.4	25.8	24.0	25.2	24.4	25.6	26.0
4H	2H	21.6	23.0	22.0	23.3	23.7	21.7	23.1	22.1	23.4	23.8
	3H	23.5	24.7	23.9	25.1	25.5	23.6	24.8	24.0	25.2	25.6
	4H	24.3	25.3	24.7	25.7	26.2	24.3	25.4	24.8	25.8	26.2
	6H	24.8	25.7	25.2	26.1	26.6	24.8	25.8	25.3	26.2	26.7
	8H	24.9	25.7	25.3	26.2	26.7	25.0	25.8	25.4	26.3	26.7
	12H	24.9	25.7	25.4	26.2	26.7	25.0	25.8	25.5	26.3	26.8
8H	4H	24.5	25.4	25.0	25.8	26.3	24.6	25.5	25.0	25.9	26.4
	6H	25.1	25.8	25.6	26.3	26.8	25.2	25.9	25.7	26.4	26.8
	8H	25.2	25.9	25.8	26.4	26.9	25.3	26.0	25.8	26.5	27.0
	12H	25.4	25.9	25.9	26.4	27.0	25.5	26.0	26.0	26.5	27.1
12H	4H	24.5	25.3	25.0	25.8	26.3	24.6	25.4	25.1	25.9	26.3
	6H	25.1	25.8	25.6	26.2	26.8	25.2	25.8	25.7	26.3	26.8
	8H	25.3	25.9	25.8	26.4	27.0	25.4	26.0	25.9	26.5	27.0

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 3600.546 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.)