



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 2 MD UV 930.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-011A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/2/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 2 MD UV 930

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

[MORE] no enclosure.

[LAMP] 28 white LEDs on one LS3872A LED board

[BALLAST] One ULT D700C20UNVPW-C LED driver labeled as 320mA

[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	2149
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	16
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)	1.99 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	10205	9879	9848
55	9998	9556	9361
65	9391	8675	8443
75	7929	6789	6638
85	4368	3015	2828

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	262.90	N.A.	12.20
0-30	562.89	N.A.	26.20
0-40	931.70	N.A.	43.40
0-60	1684.68	N.A.	78.40
0-80	2113.45	N.A.	98.40
0-90	2148.51	N.A.	100.00
10-90	2080.82	N.A.	96.80
20-40	668.80	N.A.	31.10
20-50	1060.54	N.A.	49.40
40-70	1029.38	N.A.	47.90
60-80	428.76	N.A.	20.00
70-80	152.36	N.A.	7.10
80-90	35.06	N.A.	1.60
90-110	0.20	N.A.	0.00
90-120	0.20	N.A.	0.00
90-130	0.20	N.A.	0.00
90-150	0.20	N.A.	0.00
90-180	0.20	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2148.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.68
10-20	195.22
20-30	299.99
30-40	368.81
40-50	391.73
50-60	361.25
60-70	276.40
70-80	152.36
80-90	35.06
90-100	0.20
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	81	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	51	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

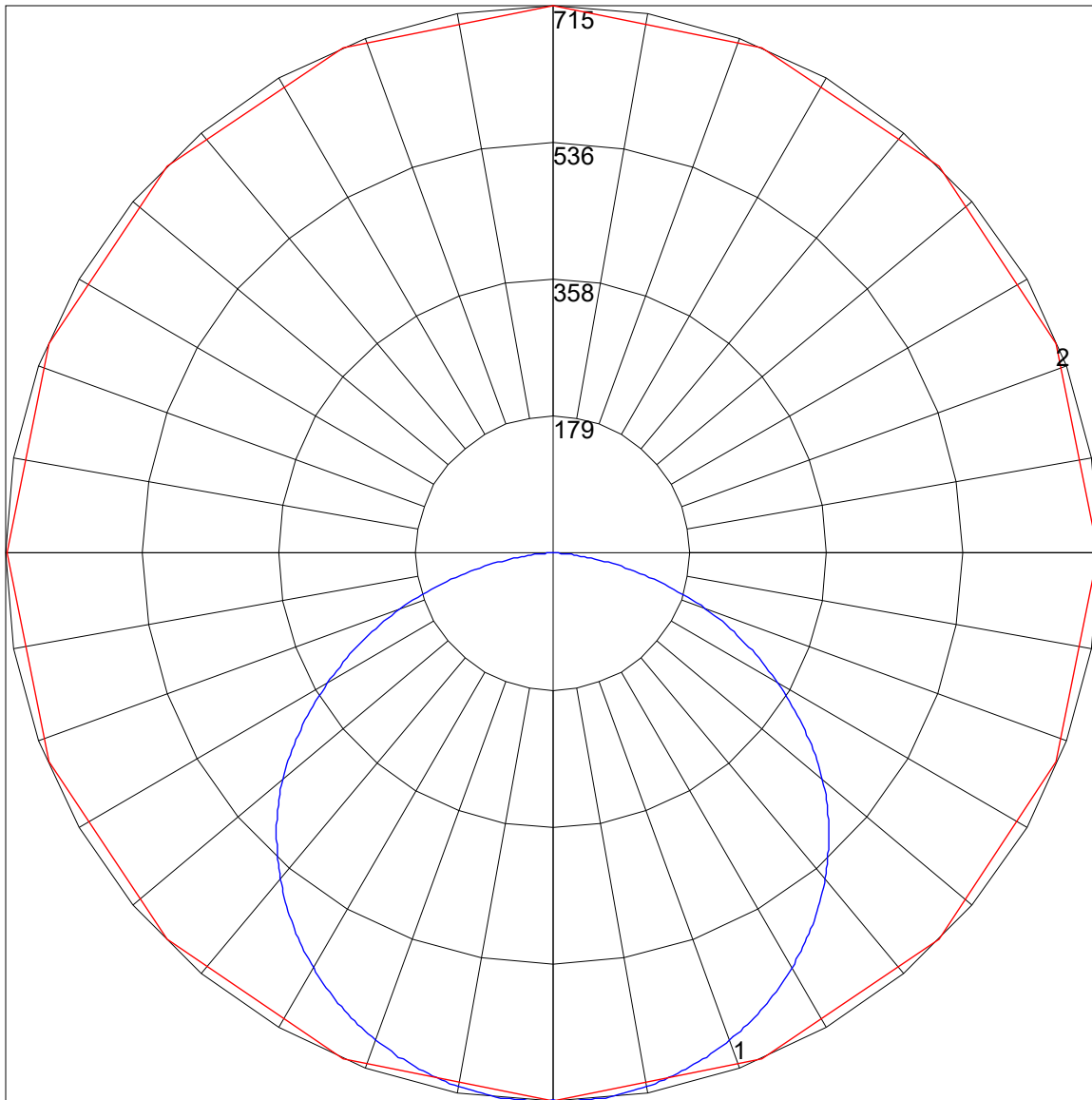
Reflectances

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	20.1	21.8	20.5	22.1	22.4	20.2	21.9	20.6	22.2	22.5
	3H	21.9	23.4	22.3	23.7	24.1	22.0	23.5	22.4	23.8	24.2
	4H	22.5	23.9	22.9	24.3	24.6	22.6	24.0	23.0	24.4	24.8
	6H	22.9	24.2	23.3	24.6	25.0	23.0	24.3	23.4	24.7	25.1
	8H	23.0	24.2	23.4	24.6	25.0	23.1	24.4	23.6	24.8	25.2
	12H	23.0	24.2	23.4	24.6	25.0	23.2	24.4	23.6	24.8	25.2
4H	2H	20.8	22.2	21.2	22.5	22.9	20.9	22.3	21.3	22.6	23.0
	3H	22.7	23.9	23.1	24.3	24.7	22.8	24.0	23.2	24.4	24.8
	4H	23.5	24.5	23.9	24.9	25.4	23.5	24.6	24.0	25.0	25.5
	6H	23.9	24.9	24.4	25.3	25.8	24.0	25.0	24.5	25.4	25.9
	8H	24.1	24.9	24.5	25.4	25.9	24.2	25.1	24.6	25.5	26.0
	12H	24.1	24.9	24.6	25.4	25.9	24.3	25.0	24.7	25.5	26.0
8H	4H	23.7	24.6	24.2	25.0	25.5	23.8	24.7	24.3	25.1	25.6
	6H	24.3	25.0	24.8	25.5	26.0	24.4	25.1	24.9	25.6	26.1
	8H	24.4	25.1	25.0	25.6	26.1	24.6	25.2	25.1	25.7	26.2
	12H	24.6	25.1	25.1	25.6	26.2	24.7	25.3	25.2	25.8	26.3
12H	4H	23.7	24.5	24.2	25.0	25.5	23.8	24.6	24.3	25.1	25.5
	6H	24.3	25.0	24.8	25.4	26.0	24.4	25.1	24.9	25.5	26.1
	8H	24.5	25.1	25.0	25.6	26.1	24.6	25.2	25.1	25.7	26.3

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 715.193 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)