



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SH UV 940.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 SH UV 940

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

[MORE] no enclosure.

[LAMP] 256 white LEDs on four LS3872A LED boards

[BALLAST] Two ULT D21CC80UNVPW-D LED drivers labeled as 1420mA

[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	22183
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	146.7
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	26433	25526	25318
55	26013	24781	24038
65	24628	22574	21672
75	21067	17751	16519
85	12059	8037	7122

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2713.03	N.A.	12.20
0-30	5809.97	N.A.	26.20
0-40	9619.05	N.A.	43.40
0-60	17403.51	N.A.	78.50
0-80	21824.83	N.A.	98.40
0-90	22181.24	N.A.	100.00
10-90	21482.79	N.A.	96.80
20-40	6906.02	N.A.	31.10
20-50	10954.58	N.A.	49.40
40-70	10642.97	N.A.	48.00
60-80	4421.31	N.A.	19.90
70-80	1562.81	N.A.	7.00
80-90	356.41	N.A.	1.60
90-110	1.94	N.A.	0.00
90-120	1.94	N.A.	0.00
90-130	1.94	N.A.	0.00
90-150	1.94	N.A.	0.00
90-180	1.94	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	22183.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	698.45
10-20	2014.59
20-30	3096.94
30-40	3809.08
40-50	4048.56
50-60	3735.91
60-70	2858.51
70-80	1562.81
80-90	356.41
90-100	1.94
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

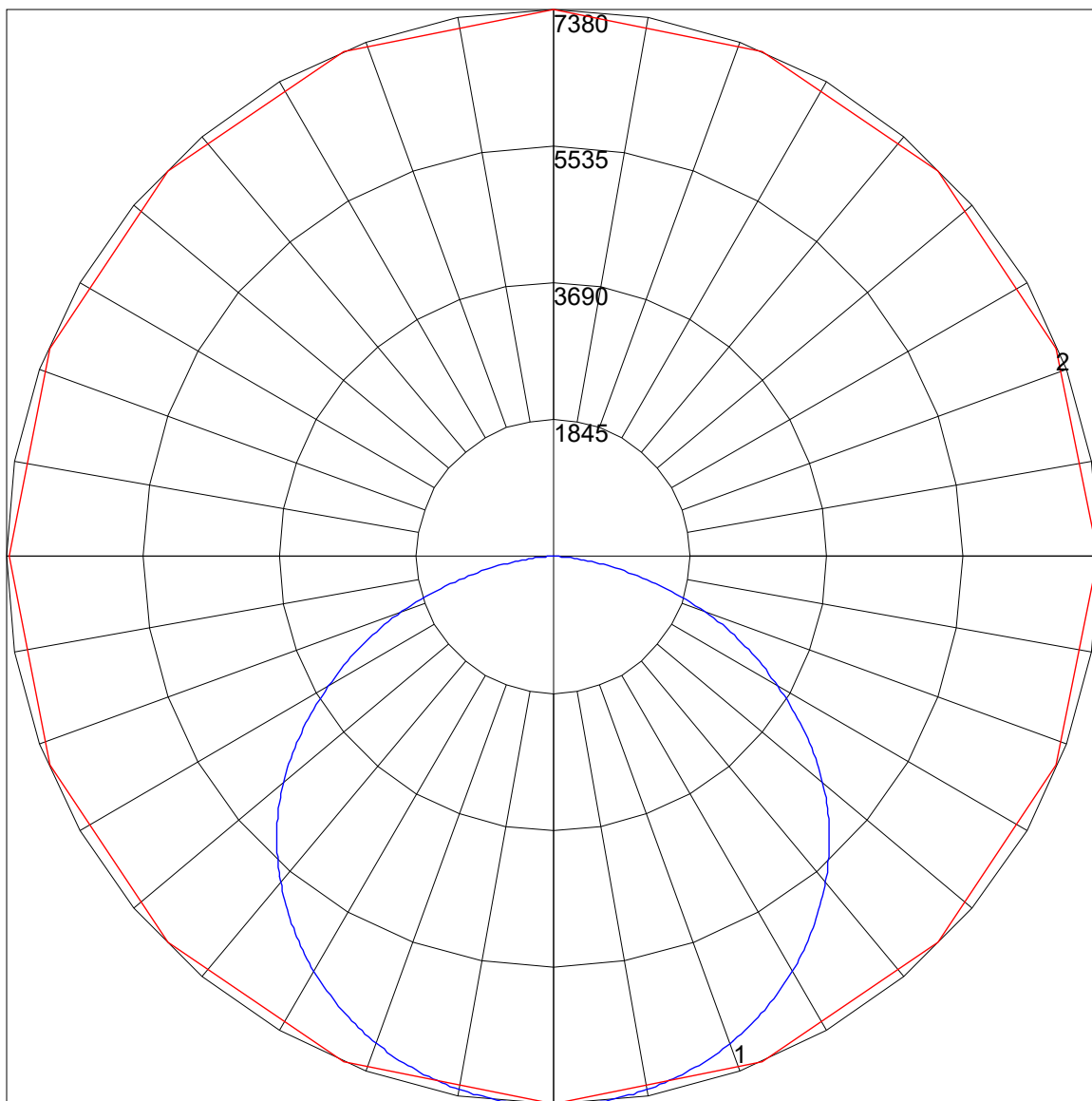
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UGR TABLE - CORRECTED

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	23.4	25.1	23.8	25.4	25.7	23.5	25.2	23.9	25.5	25.8
	3H	25.2	26.7	25.6	27.0	27.4	25.3	26.8	25.7	27.2	27.5
	4H	25.8	27.2	26.2	27.6	27.9	25.9	27.3	26.3	27.7	28.1
	6H	26.2	27.5	26.6	27.9	28.3	26.3	27.6	26.7	28.0	28.4
	8H	26.3	27.5	26.7	27.9	28.3	26.4	27.7	26.9	28.1	28.5
	12H	26.3	27.5	26.7	27.9	28.3	26.5	27.7	26.9	28.1	28.5
4H	2H	24.1	25.5	24.5	25.8	26.2	24.2	25.6	24.6	25.9	26.3
	3H	26.0	27.2	26.4	27.6	28.0	26.1	27.3	26.5	27.7	28.1
	4H	26.8	27.8	27.2	28.2	28.7	26.8	27.9	27.3	28.3	28.7
	6H	27.3	28.2	27.7	28.6	29.1	27.3	28.3	27.8	28.7	29.2
	8H	27.4	28.2	27.8	28.7	29.2	27.5	28.3	27.9	28.8	29.2
	12H	27.4	28.2	27.9	28.7	29.2	27.5	28.3	28.0	28.8	29.3
8H	4H	27.0	27.9	27.5	28.3	28.8	27.1	28.0	27.5	28.4	28.9
	6H	27.6	28.3	28.1	28.8	29.3	27.7	28.4	28.2	28.9	29.3
	8H	27.7	28.4	28.3	28.9	29.4	27.8	28.5	28.3	29.0	29.5
	12H	27.9	28.4	28.4	28.9	29.5	28.0	28.5	28.5	29.0	29.6
12H	4H	27.0	27.8	27.5	28.3	28.8	27.1	27.9	27.6	28.4	28.8
	6H	27.6	28.3	28.1	28.7	29.3	27.7	28.3	28.2	28.8	29.3
	8H	27.8	28.4	28.3	28.9	29.5	27.9	28.5	28.4	29.0	29.5

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 7379.912 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.)