



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 HI 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 HI UV 940

[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 1680mA

[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	13516
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	85.1
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	16105	15552	15426
55	15849	15099	14646
65	15006	13754	13205
75	12836	10816	10065
85	7347	4897	4339

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1653.01	N.A.	12.20
0-30	3539.92	N.A.	26.20
0-40	5860.73	N.A.	43.40
0-60	10603.67	N.A.	78.50
0-80	13297.5	N.A.	98.40
0-90	13514.66	N.A.	100.00
10-90	13089.11	N.A.	96.80
20-40	4207.72	N.A.	31.10
20-50	6674.44	N.A.	49.40
40-70	6484.58	N.A.	48.00
60-80	2693.83	N.A.	19.90
70-80	952.19	N.A.	7.00
80-90	217.16	N.A.	1.60
90-110	1.18	N.A.	0.00
90-120	1.18	N.A.	0.00
90-130	1.18	N.A.	0.00
90-150	1.18	N.A.	0.00
90-180	1.18	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	13515.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	425.55
10-20	1227.45
20-30	1886.91
30-40	2320.81
40-50	2466.72
50-60	2276.23
60-70	1741.64
70-80	952.19
80-90	217.16
90-100	1.18
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

X=2H	Y=2H	21.7	23.4	22.1	23.7	24.0	21.8	23.5	22.2	23.8	24.1
	3H	23.5	25.0	23.9	25.3	25.7	23.6	25.1	24.0	25.5	25.8
	4H	24.1	25.5	24.5	25.9	26.2	24.2	25.6	24.6	26.0	26.4
	6H	24.5	25.8	24.9	26.2	26.6	24.6	25.9	25.0	26.3	26.7
	8H	24.6	25.8	25.0	26.2	26.6	24.7	26.0	25.2	26.4	26.8
	12H	24.6	25.8	25.0	26.2	26.6	24.8	26.0	25.2	26.4	26.8

UGR Viewed Endwise

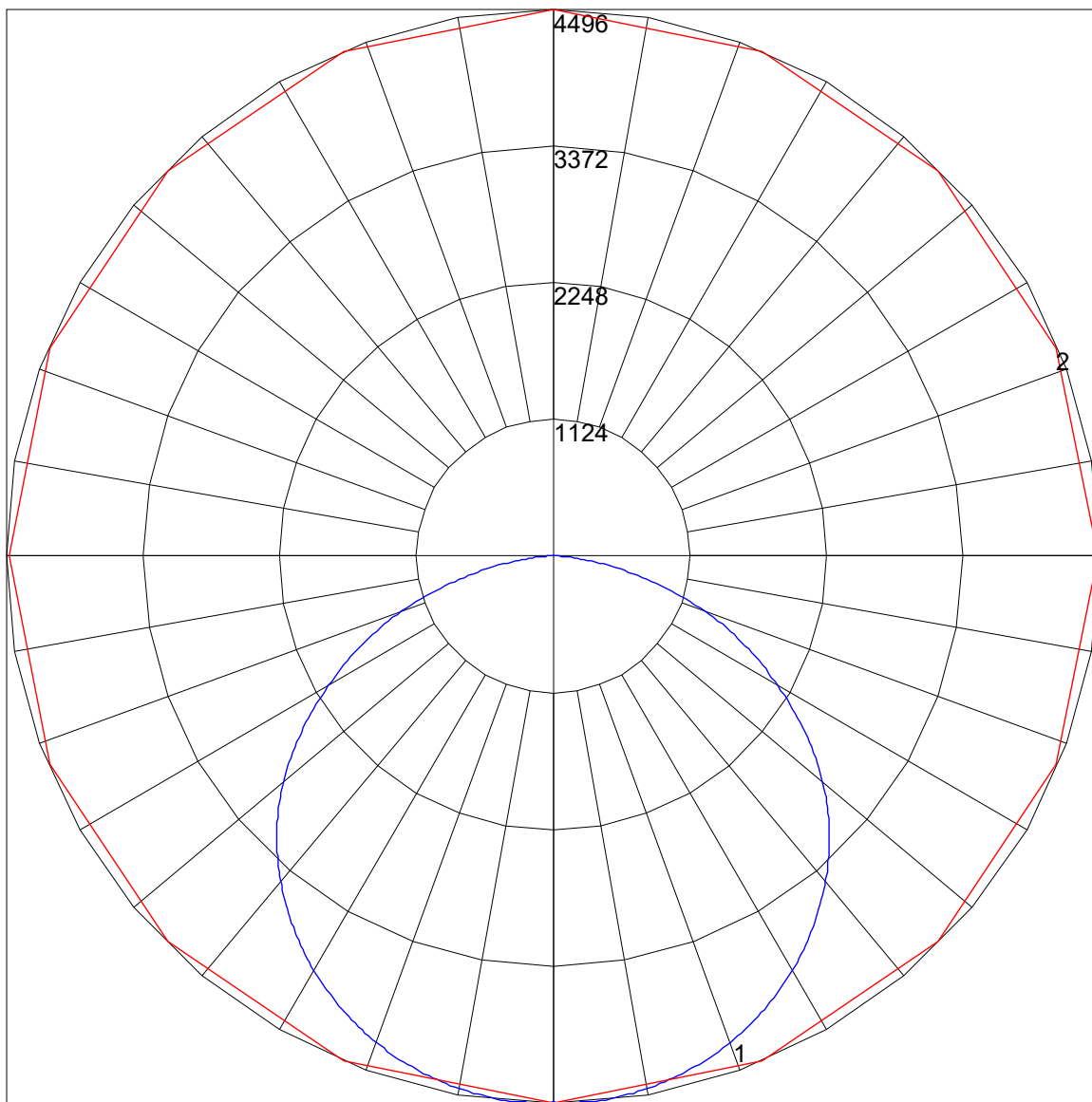
4H	2H	22.4	23.8	22.8	24.1	24.5	22.5	23.9	22.9	24.2	24.6
	3H	24.3	25.5	24.7	25.9	26.3	24.4	25.6	24.8	26.0	26.4
	4H	25.1	26.1	25.5	26.5	27.0	25.1	26.2	25.6	26.6	27.0
	6H	25.6	26.5	26.0	26.9	27.4	25.6	26.6	26.1	27.0	27.5
	8H	25.7	26.5	26.1	27.0	27.5	25.8	26.6	26.2	27.1	27.5
	12H	25.7	26.5	26.2	27.0	27.5	25.8	26.6	26.3	27.1	27.6

8H	4H	25.3	26.2	25.8	26.6	27.1	25.4	26.3	25.8	26.7	27.2
	6H	25.9	26.6	26.4	27.1	27.6	26.0	26.7	26.5	27.2	27.6
	8H	26.0	26.7	26.6	27.2	27.7	26.1	26.8	26.6	27.3	27.8
	12H	26.2	26.7	26.7	27.2	27.8	26.3	26.8	26.8	27.3	27.9

12H	4H	25.3	26.1	25.8	26.6	27.1	25.4	26.2	25.9	26.7	27.1
	6H	25.9	26.6	26.4	27.0	27.6	26.0	26.6	26.5	27.1	27.6
	8H	26.1	26.7	26.6	27.2	27.8	26.2	26.8	26.7	27.3	27.8

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 4496.457 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.)