



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 LW UV FR 935.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 5/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL N G2 2 LW UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMP] 28 white LEDs on one LS3872A LED board

[BALLAST] One ULT D700C20UNVPW-C LED driver labeled as 160mA

[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	1048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	8.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.99 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7565	6912	6823
55	6479	6055	6044
65	5136	5058	5127
75	3687	4055	4099
85	2037	3289	3230

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	128.13	N.A.	12.20
0-30	272.61	N.A.	26.00
0-40	446.16	N.A.	42.60
0-60	779.80	N.A.	74.40
0-80	972.23	N.A.	92.80
0-90	1011.04	N.A.	96.50
10-90	977.97	N.A.	93.30
20-40	318.03	N.A.	30.30
20-50	495.38	N.A.	47.30
40-70	451.48	N.A.	43.10
60-80	192.43	N.A.	18.40
70-80	74.59	N.A.	7.10
80-90	38.81	N.A.	3.70
90-110	26.84	N.A.	2.60
90-120	31.48	N.A.	3.00
90-130	34.03	N.A.	3.20
90-150	36.31	N.A.	3.50
90-180	36.95	N.A.	3.50
110-180	10.11	N.A.	1.00
0-180	1047.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.08
10-20	95.06
20-30	144.48
30-40	173.55
40-50	177.35
50-60	156.28
60-70	117.84
70-80	74.59
80-90	38.81
90-100	18.03
100-110	8.81
110-120	4.64
120-130	2.55
130-140	1.45
140-150	0.83
150-160	0.46
160-170	0.16
170-180	0.02

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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	98	93	104	99	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	42	35	62	49	41	35	47	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	43	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23

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UGR TABLE - CORRECTED

Reflectances

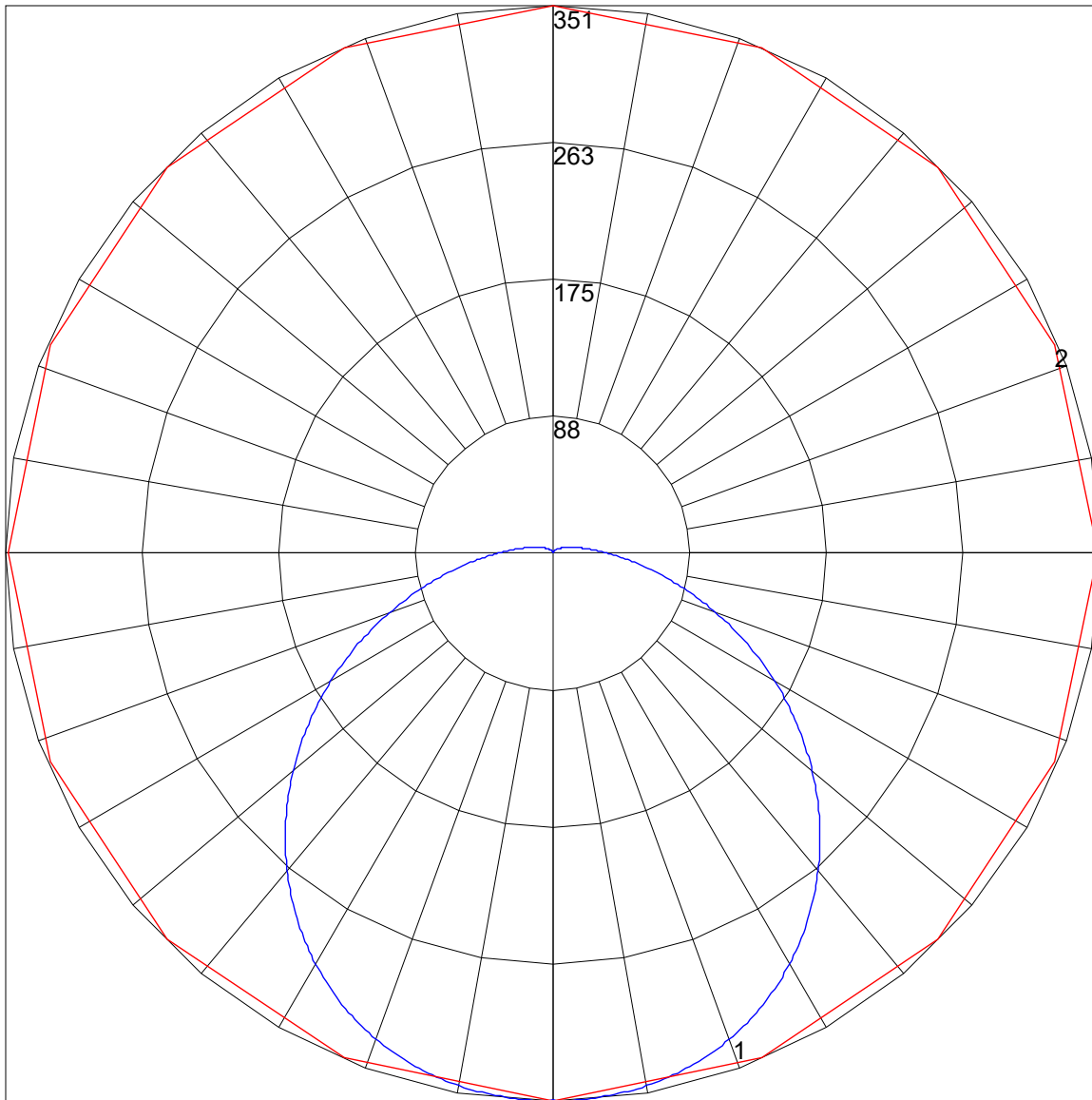
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.8	18.3	17.2	18.7	19.2	18.9	20.5	19.3	20.9	21.3
	3H	18.0	19.4	18.4	19.8	20.3	20.9	22.3	21.4	22.7	23.2
	4H	18.3	19.7	18.8	20.1	20.6	21.8	23.1	22.2	23.5	24.0
	6H	18.5	19.8	19.0	20.2	20.7	22.6	23.8	23.1	24.3	24.8
	8H	18.6	19.8	19.1	20.2	20.7	23.0	24.2	23.5	24.6	25.1
	12H	18.6	19.7	19.1	20.2	20.7	23.4	24.5	23.9	25.0	25.5
4H	2H	17.6	19.0	18.1	19.4	19.9	19.3	20.7	19.8	21.1	21.6
	3H	19.1	20.2	19.6	20.7	21.2	21.5	22.7	22.0	23.1	23.6
	4H	19.6	20.6	20.1	21.1	21.6	22.6	23.6	23.1	24.1	24.6
	6H	19.9	20.8	20.4	21.3	21.8	23.5	24.4	24.1	24.9	25.5
	8H	19.9	20.8	20.5	21.3	21.8	24.0	24.8	24.5	25.4	25.9
	12H	20.0	20.7	20.5	21.3	21.8	24.5	25.3	25.0	25.8	26.4
8H	4H	20.1	21.0	20.6	21.5	22.0	22.7	23.6	23.3	24.1	24.7
	6H	20.6	21.3	21.2	21.9	22.4	23.9	24.6	24.4	25.1	25.7
	8H	20.7	21.4	21.3	21.9	22.5	24.5	25.1	25.0	25.7	26.2
	12H	20.8	21.4	21.4	21.9	22.6	25.1	25.7	25.7	26.2	26.9
12H	4H	20.2	21.0	20.8	21.6	22.1	22.7	23.5	23.3	24.0	24.6
	6H	20.8	21.4	21.4	22.0	22.6	23.9	24.5	24.5	25.1	25.7
	8H	21.0	21.6	21.6	22.1	22.8	24.6	25.1	25.1	25.7	26.3

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 350.577 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)