



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 MD UV FR 940.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 MD UV FR 940

[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 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	2074
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	16
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	14974	13683	13505
55	12824	11985	11964
65	10166	10011	10148
75	7297	8027	8113
85	4032	6510	6394

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	253.63	N.A.	12.20
0-30	539.61	N.A.	26.00
0-40	883.14	N.A.	42.60
0-60	1543.54	N.A.	74.40
0-80	1924.44	N.A.	92.80
0-90	2001.27	N.A.	96.50
10-90	1935.8	N.A.	93.30
20-40	629.51	N.A.	30.30
20-50	980.56	N.A.	47.30
40-70	893.67	N.A.	43.10
60-80	380.90	N.A.	18.40
70-80	147.64	N.A.	7.10
80-90	76.83	N.A.	3.70
90-110	53.13	N.A.	2.60
90-120	62.31	N.A.	3.00
90-130	67.35	N.A.	3.20
90-150	71.87	N.A.	3.50
90-180	73.14	N.A.	3.50
110-180	20.00	N.A.	1.00
0-180	2074.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.48
10-20	188.15
20-30	285.98
30-40	343.53
40-50	351.06
50-60	309.35
60-70	233.26
70-80	147.64
80-90	76.83
90-100	35.70
100-110	17.44
110-120	9.18
120-130	5.04
130-140	2.88
140-150	1.64
150-160	0.91
160-170	0.33
170-180	0.04

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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	100	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	65	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

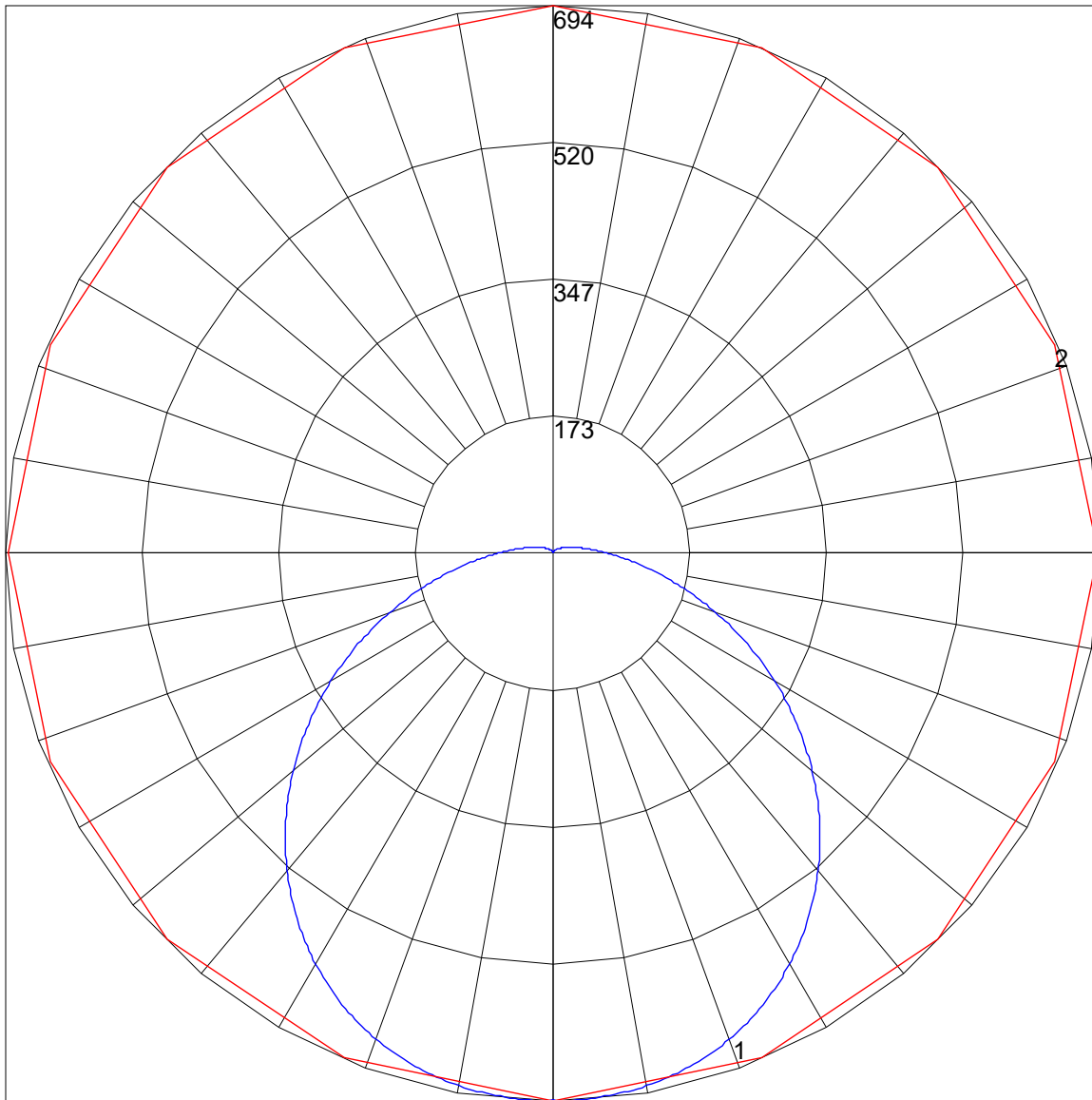
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	19.1	20.6	19.5	21.0	21.5	21.2	22.8	21.6	23.2	23.6
	3H	20.3	21.7	20.7	22.1	22.6	23.2	24.6	23.7	25.0	25.5
	4H	20.6	22.0	21.1	22.4	22.9	24.1	25.4	24.5	25.8	26.3
	6H	20.8	22.1	21.3	22.5	23.0	24.9	26.1	25.4	26.6	27.1
	8H	20.9	22.1	21.4	22.5	23.0	25.3	26.5	25.8	26.9	27.4
	12H	20.9	22.0	21.4	22.5	23.0	25.7	26.8	26.2	27.3	27.8
4H	2H	19.9	21.3	20.4	21.7	22.2	21.6	23.0	22.1	23.4	23.9
	3H	21.4	22.5	21.9	23.0	23.5	23.8	25.0	24.3	25.4	25.9
	4H	21.9	22.9	22.4	23.4	23.9	24.9	25.9	25.4	26.4	26.9
	6H	22.2	23.1	22.7	23.6	24.1	25.8	26.7	26.4	27.2	27.8
	8H	22.2	23.1	22.8	23.6	24.1	26.3	27.1	26.8	27.7	28.2
	12H	22.3	23.0	22.8	23.6	24.1	26.8	27.6	27.3	28.1	28.7
8H	4H	22.4	23.3	22.9	23.8	24.3	25.0	25.9	25.6	26.4	27.0
	6H	22.9	23.6	23.4	24.2	24.7	26.2	26.9	26.7	27.4	28.0
	8H	23.0	23.7	23.6	24.2	24.8	26.7	27.4	27.3	28.0	28.5
	12H	23.1	23.7	23.7	24.2	24.9	27.4	28.0	28.0	28.5	29.2
12H	4H	22.5	23.3	23.1	23.8	24.4	25.0	25.8	25.6	26.3	26.9
	6H	23.1	23.7	23.7	24.3	24.9	26.2	26.8	26.8	27.4	28.0
	8H	23.3	23.9	23.9	24.4	25.1	26.9	27.4	27.4	28.0	28.6

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 693.936 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.)