



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 ML 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 ML 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 240mA

[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	1594
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	12.1
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	11505	10513	10377
55	9853	9208	9193
65	7811	7692	7797
75	5607	6167	6234
85	3098	5002	4912

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	194.87	N.A.	12.20
0-30	414.61	N.A.	26.00
0-40	678.55	N.A.	42.60
0-60	1185.97	N.A.	74.40
0-80	1478.63	N.A.	92.80
0-90	1537.66	N.A.	96.50
10-90	1487.35	N.A.	93.30
20-40	483.68	N.A.	30.30
20-50	753.41	N.A.	47.30
40-70	686.64	N.A.	43.10
60-80	292.66	N.A.	18.40
70-80	113.43	N.A.	7.10
80-90	59.03	N.A.	3.70
90-110	40.83	N.A.	2.60
90-120	47.88	N.A.	3.00
90-130	51.75	N.A.	3.20
90-150	55.22	N.A.	3.50
90-180	56.20	N.A.	3.50
110-180	15.37	N.A.	1.00
0-180	1593.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.31
10-20	144.57
20-30	219.73
30-40	263.95
40-50	269.73
50-60	237.69
60-70	179.23
70-80	113.43
80-90	59.03
90-100	27.43
100-110	13.40
110-120	7.05
120-130	3.87
130-140	2.21
140-150	1.26
150-160	0.70
160-170	0.25
170-180	0.03

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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	40	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

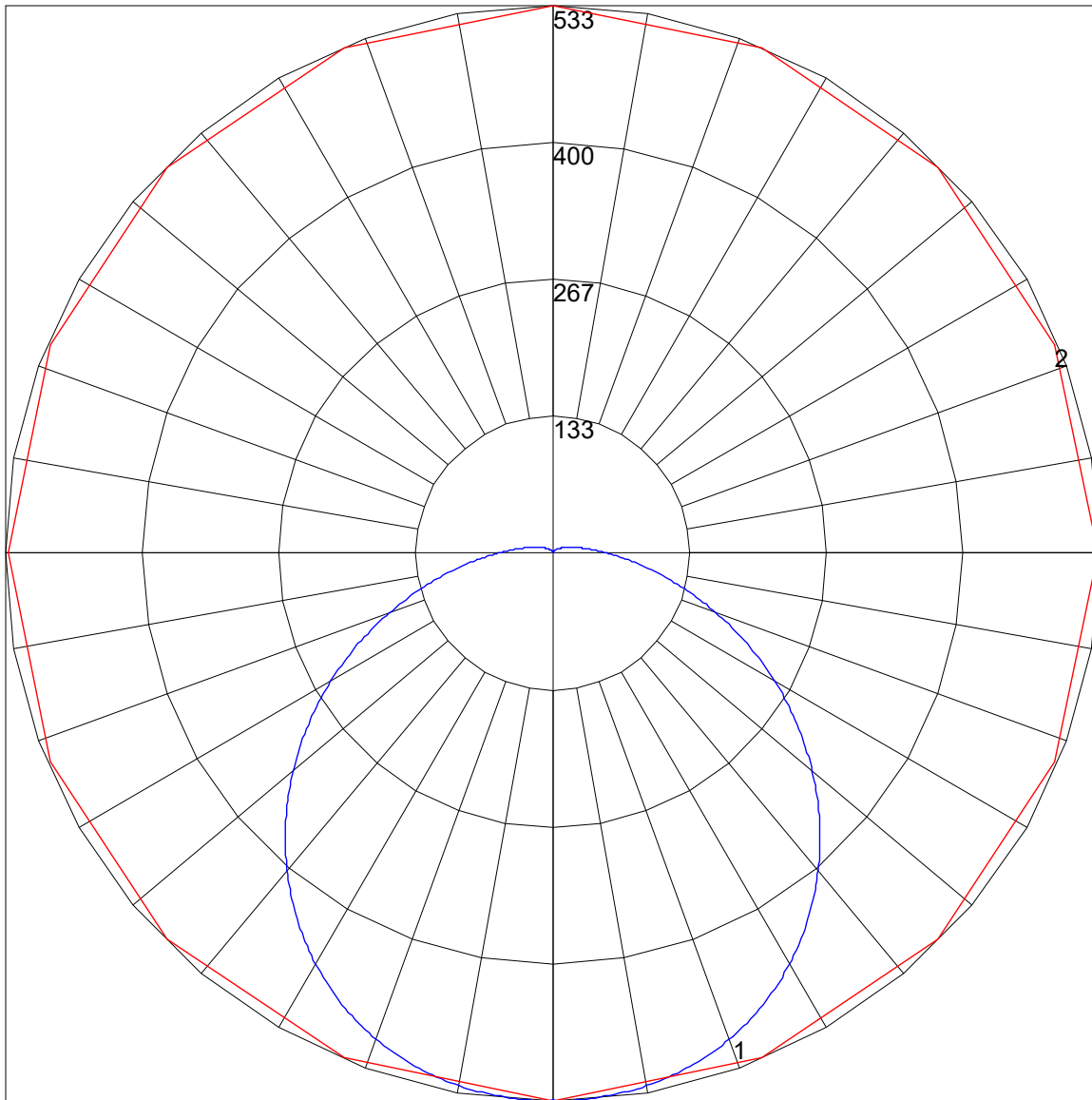
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.2	19.7	18.6	20.1	20.6	20.3	21.9	20.7	22.3	22.7
	3H	19.4	20.8	19.8	21.2	21.7	22.3	23.7	22.8	24.1	24.6
	4H	19.7	21.1	20.2	21.5	22.0	23.2	24.5	23.6	24.9	25.4
	6H	19.9	21.2	20.4	21.6	22.1	24.0	25.2	24.5	25.7	26.2
	8H	20.0	21.2	20.5	21.6	22.1	24.4	25.5	24.9	26.0	26.5
	12H	20.0	21.1	20.5	21.6	22.1	24.8	25.9	25.3	26.4	26.9
4H	2H	19.0	20.4	19.5	20.8	21.3	20.7	22.1	21.2	22.5	23.0
	3H	20.5	21.6	21.0	22.1	22.6	22.9	24.1	23.4	24.5	25.0
	4H	21.0	22.0	21.5	22.5	23.0	24.0	25.0	24.4	25.5	26.0
	6H	21.3	22.2	21.8	22.7	23.2	24.9	25.8	25.5	26.3	26.9
	8H	21.3	22.2	21.9	22.7	23.2	25.4	26.2	25.9	26.8	27.3
	12H	21.4	22.1	21.9	22.7	23.2	25.9	26.7	26.4	27.2	27.8
8H	4H	21.5	22.4	22.0	22.9	23.4	24.1	25.0	24.7	25.5	26.1
	6H	22.0	22.7	22.5	23.2	23.8	25.3	26.0	25.8	26.5	27.1
	8H	22.1	22.8	22.7	23.3	23.9	25.8	26.5	26.4	27.1	27.6
	12H	22.2	22.8	22.8	23.3	24.0	26.5	27.1	27.1	27.6	28.3
12H	4H	21.6	22.4	22.2	22.9	23.5	24.1	24.9	24.7	25.4	26.0
	6H	22.2	22.8	22.8	23.4	24.0	25.3	25.9	25.9	26.5	27.1
	8H	22.4	23.0	23.0	23.5	24.2	26.0	26.5	26.5	27.1	27.7

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 533.179 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.)