



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 MD UV FR 930.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 930

[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	2018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	14566	13310	13138
55	12474	11658	11639
65	9889	9738	9871
75	7099	7808	7892
85	3922	6332	6219

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	246.72	N.A.	12.20
0-30	524.91	N.A.	26.00
0-40	859.08	N.A.	42.60
0-60	1501.5	N.A.	74.40
0-80	1872.02	N.A.	92.80
0-90	1946.76	N.A.	96.50
10-90	1883.06	N.A.	93.30
20-40	612.36	N.A.	30.30
20-50	953.85	N.A.	47.30
40-70	869.32	N.A.	43.10
60-80	370.52	N.A.	18.40
70-80	143.61	N.A.	7.10
80-90	74.74	N.A.	3.70
90-110	51.69	N.A.	2.60
90-120	60.62	N.A.	3.00
90-130	65.52	N.A.	3.20
90-150	69.91	N.A.	3.50
90-180	71.15	N.A.	3.50
110-180	19.46	N.A.	1.00
0-180	2017.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.69
10-20	183.03
20-30	278.19
30-40	334.17
40-50	341.49
50-60	300.92
60-70	226.91
70-80	143.61
80-90	74.74
90-100	34.73
100-110	16.96
110-120	8.93
120-130	4.90
130-140	2.80
140-150	1.59
150-160	0.88
160-170	0.32
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	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**

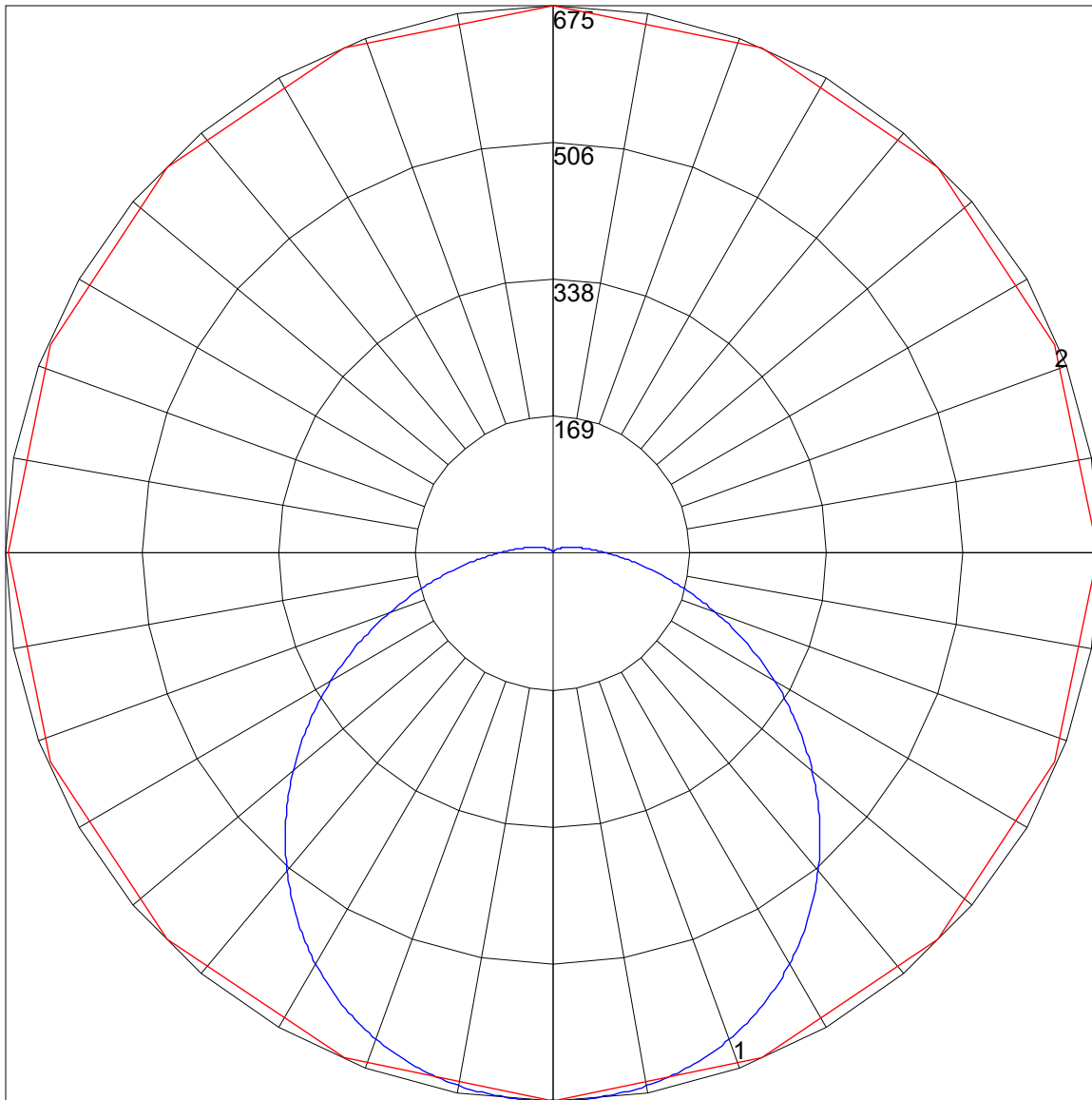
Reflectances

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	19.0	20.5	19.4	20.9	21.4	21.1	22.7	21.5	23.1	23.5
	3H	20.2	21.6	20.6	22.0	22.5	23.1	24.5	23.5	24.9	25.4
	4H	20.5	21.9	21.0	22.3	22.8	24.0	25.3	24.4	25.7	26.2
	6H	20.7	22.0	21.2	22.4	22.9	24.8	26.0	25.3	26.5	27.0
	8H	20.8	22.0	21.3	22.4	22.9	25.2	26.3	25.7	26.8	27.3
	12H	20.8	21.9	21.3	22.4	22.9	25.6	26.7	26.1	27.2	27.7
4H	2H	19.8	21.2	20.3	21.6	22.1	21.5	22.9	22.0	23.3	23.8
	3H	21.3	22.4	21.8	22.9	23.4	23.7	24.9	24.2	25.3	25.8
	4H	21.8	22.8	22.3	23.3	23.8	24.8	25.8	25.2	26.3	26.8
	6H	22.1	23.0	22.6	23.5	24.0	25.7	26.6	26.3	27.1	27.7
	8H	22.1	23.0	22.7	23.5	24.0	26.2	27.0	26.7	27.6	28.1
	12H	22.2	22.9	22.7	23.5	24.0	26.7	27.5	27.2	28.0	28.6
8H	4H	22.3	23.2	22.8	23.7	24.2	24.9	25.8	25.5	26.3	26.8
	6H	22.8	23.5	23.3	24.0	24.6	26.1	26.8	26.6	27.3	27.9
	8H	22.9	23.6	23.5	24.1	24.7	26.6	27.3	27.2	27.9	28.4
	12H	23.0	23.6	23.6	24.1	24.8	27.3	27.9	27.9	28.4	29.1
12H	4H	22.4	23.2	23.0	23.7	24.3	24.9	25.7	25.5	26.2	26.8
	6H	23.0	23.6	23.6	24.2	24.8	26.1	26.7	26.7	27.3	27.9
	8H	23.2	23.8	23.8	24.3	25.0	26.7	27.3	27.3	27.9	28.5

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 675.032 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.)