



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 VH UV FR 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 5/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL N G2 4 VH UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMP] 128 white LEDs on two LS3873A LED boards

[BALLAST] One ULT D15CC55UNVPW-C LED driver labeled as 1100mA

[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	8301
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	56.3
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)	3.84 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	32181	28730	27986
55	27939	25348	24786
65	22380	21247	20797
75	16239	16947	16295
85	9347	13673	12353

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1017.75	N.A.	12.30
0-30	2164.12	N.A.	26.10
0-40	3543.2	N.A.	42.70
0-60	6210.01	N.A.	74.80
0-80	7737.01	N.A.	93.20
0-90	8034.65	N.A.	96.80
10-90	7771.75	N.A.	93.60
20-40	2525.44	N.A.	30.40
20-50	3940.79	N.A.	47.50
40-70	3607.38	N.A.	43.50
60-80	1527.00	N.A.	18.40
70-80	586.44	N.A.	7.10
80-90	297.63	N.A.	3.60
90-110	199.94	N.A.	2.40
90-120	233.40	N.A.	2.80
90-130	251.09	N.A.	3.00
90-150	264.36	N.A.	3.20
90-180	266.69	N.A.	3.20
110-180	66.75	N.A.	0.80
0-180	8301.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	262.90
10-20	754.85
20-30	1146.37
30-40	1379.08
40-50	1415.35
50-60	1251.47
60-70	940.56
70-80	586.44
80-90	297.63
90-100	134.95
100-110	64.99
110-120	33.46
120-130	17.69
130-140	9.05
140-150	4.22
150-160	1.81
160-170	0.52
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	80
2	97	89	82	76	94	87	80	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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**UGR TABLE - CORRECTED**

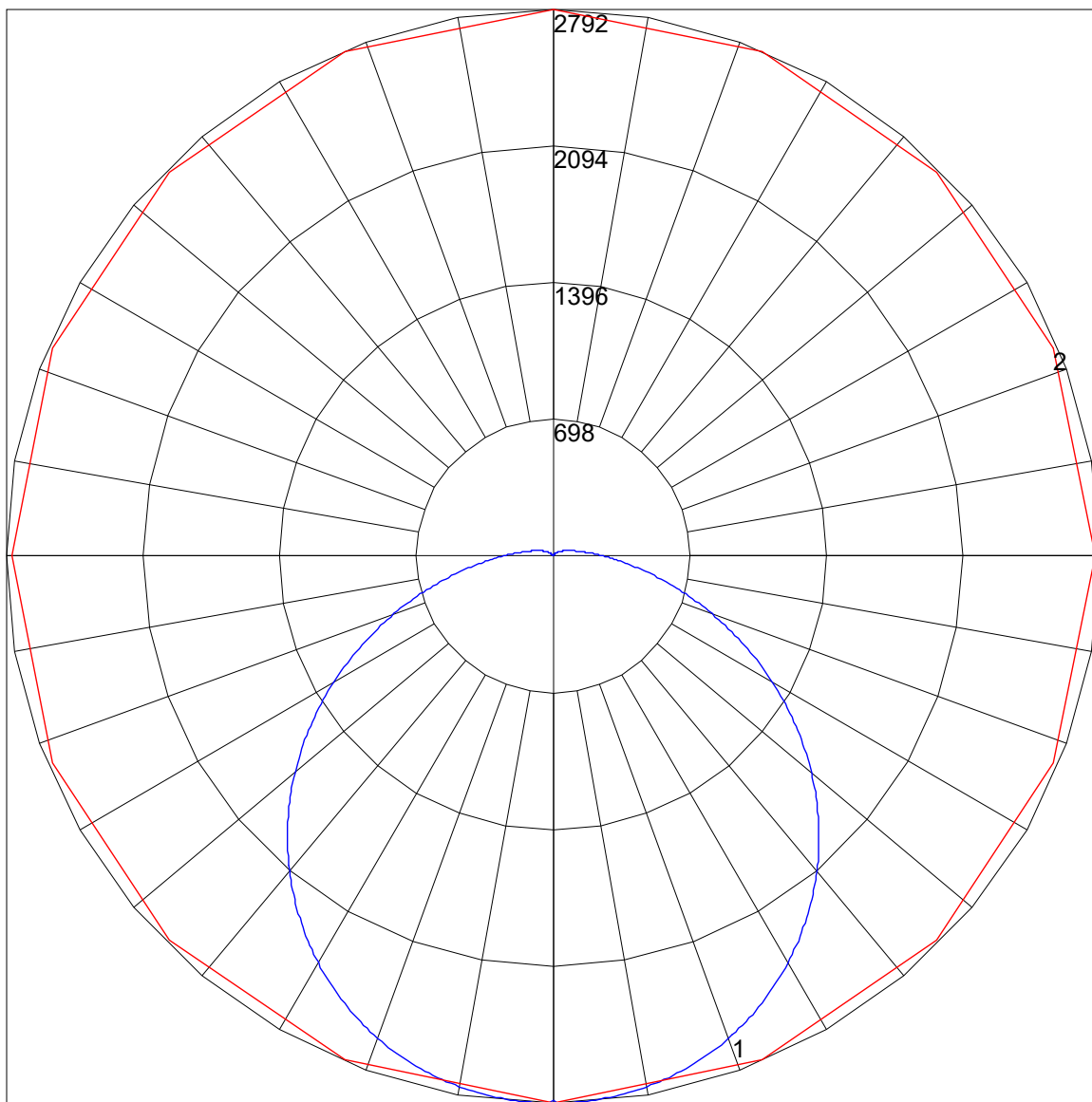
Reflectances

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	21.9	23.5	22.3	23.9	24.3	23.9	25.5	24.3	25.9	26.3
	3H	23.1	24.6	23.6	24.9	25.4	25.9	27.3	26.3	27.7	28.2
	4H	23.5	24.8	23.9	25.2	25.7	26.8	28.1	27.2	28.5	29.0
	6H	23.7	24.9	24.1	25.4	25.8	27.5	28.8	28.0	29.2	29.7
	8H	23.7	24.9	24.2	25.4	25.8	27.9	29.1	28.4	29.6	30.0
	12H	23.7	24.9	24.2	25.3	25.8	28.3	29.5	28.8	29.9	30.4
4H	2H	22.8	24.1	23.2	24.5	25.0	24.4	25.7	24.8	26.1	26.6
	3H	24.2	25.3	24.6	25.8	26.3	26.5	27.7	27.0	28.1	28.6
	4H	24.7	25.7	25.1	26.2	26.7	27.5	28.6	28.0	29.0	29.5
	6H	25.0	25.9	25.5	26.4	26.9	28.5	29.4	29.0	29.9	30.4
	8H	25.0	25.9	25.5	26.4	26.9	28.9	29.8	29.4	30.3	30.8
	12H	25.1	25.8	25.6	26.4	26.9	29.4	30.2	29.9	30.7	31.3
8H	4H	25.2	26.1	25.7	26.6	27.1	27.7	28.6	28.2	29.1	29.6
	6H	25.7	26.4	26.2	26.9	27.5	28.8	29.5	29.3	30.1	30.6
	8H	25.8	26.5	26.3	27.0	27.6	29.4	30.0	29.9	30.6	31.1
	12H	25.9	26.5	26.4	27.0	27.6	30.0	30.6	30.5	31.1	31.7
12H	4H	25.3	26.1	25.8	26.6	27.2	27.7	28.5	28.2	29.0	29.6
	6H	25.9	26.5	26.4	27.0	27.6	28.8	29.5	29.4	30.0	30.6
	8H	26.1	26.7	26.6	27.2	27.8	29.5	30.0	30.0	30.6	31.2

Maximum UGR = 31.7

POLAR GRAPH



Maximum Candela = 2791.938 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.)