



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 HI UV FR 935.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 5/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL N G2 4 HI UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMP] 96 white LEDs on two LS3873A LED boards

[BALLAST] One ULT D15CC55UNVPW-C LED driver labeled as 840mA

[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	6183
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	43.5
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)	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	23968	21398	20844
55	20809	18879	18460
65	16669	15824	15489
75	12095	12622	12136
85	6962	10183	9201

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	758.01	N.A.	12.30
0-30	1611.81	N.A.	26.10
0-40	2638.93	N.A.	42.70
0-60	4625.14	N.A.	74.80
0-80	5762.43	N.A.	93.20
0-90	5984.1	N.A.	96.80
10-90	5788.3	N.A.	93.60
20-40	1880.92	N.A.	30.40
20-50	2935.05	N.A.	47.50
40-70	2686.73	N.A.	43.50
60-80	1137.29	N.A.	18.40
70-80	436.77	N.A.	7.10
80-90	221.67	N.A.	3.60
90-110	148.92	N.A.	2.40
90-120	173.83	N.A.	2.80
90-130	187.01	N.A.	3.00
90-150	196.89	N.A.	3.20
90-180	198.63	N.A.	3.20
110-180	49.71	N.A.	0.80
0-180	6182.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	195.80
10-20	562.21
20-30	853.80
30-40	1027.12
40-50	1054.13
50-60	932.08
60-70	700.52
70-80	436.77
80-90	221.67
90-100	100.51
100-110	48.41
110-120	24.92
120-130	13.18
130-140	6.74
140-150	3.14
150-160	1.35
160-170	0.39
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**

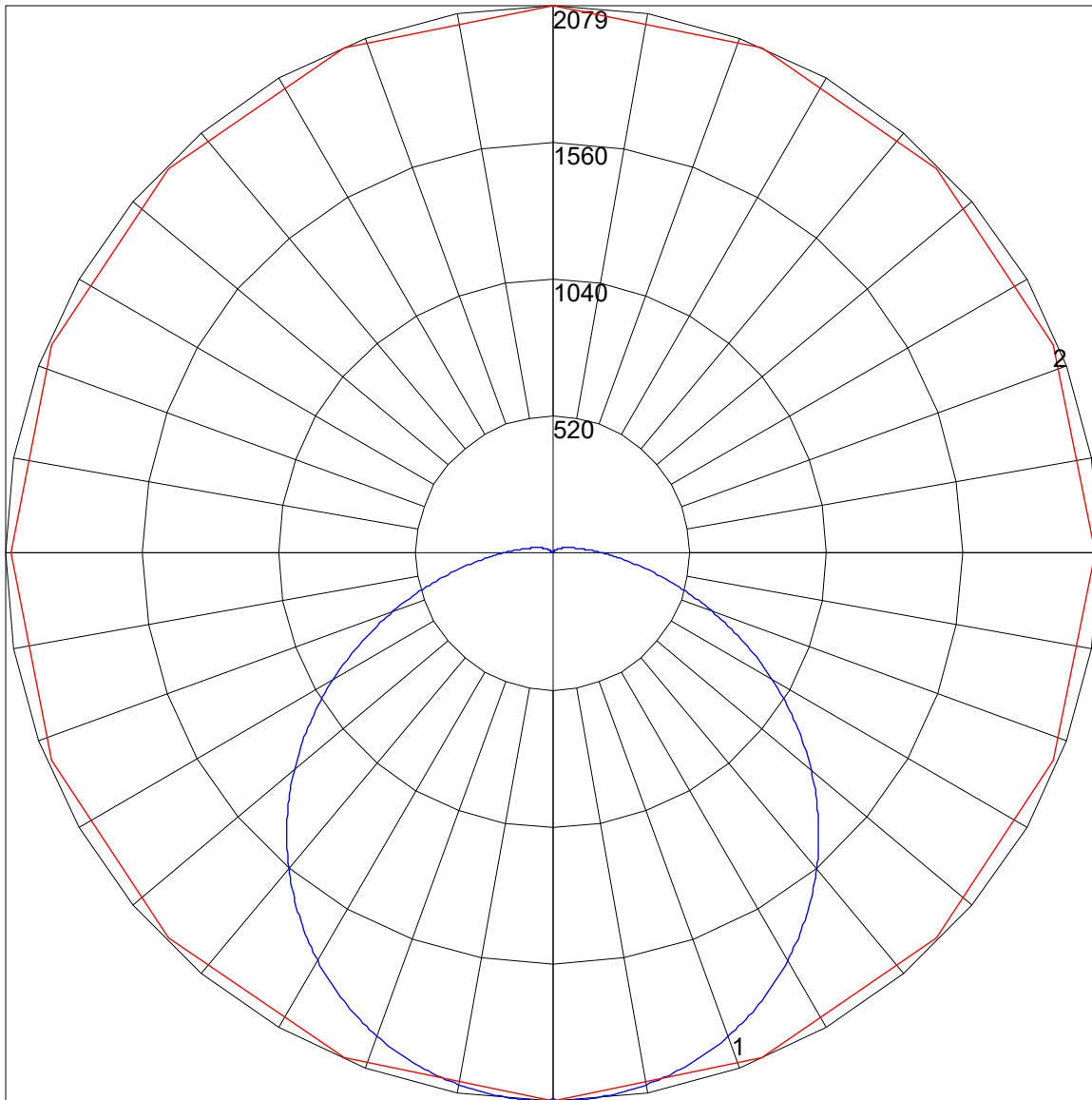
Reflectances

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	20.8	22.4	21.2	22.8	23.2	22.8	24.4	23.2	24.8	25.2
	3H	22.0	23.5	22.5	23.8	24.3	24.8	26.2	25.2	26.6	27.1
	4H	22.4	23.7	22.8	24.1	24.6	25.7	27.0	26.1	27.4	27.9
	6H	22.6	23.8	23.0	24.3	24.7	26.4	27.7	26.9	28.1	28.6
	8H	22.6	23.8	23.1	24.3	24.7	26.8	28.0	27.3	28.5	28.9
	12H	22.6	23.8	23.1	24.2	24.7	27.2	28.3	27.7	28.8	29.3
4H	2H	21.7	23.0	22.1	23.4	23.9	23.3	24.6	23.7	25.0	25.5
	3H	23.1	24.2	23.5	24.7	25.2	25.4	26.6	25.9	27.0	27.5
	4H	23.6	24.6	24.0	25.1	25.6	26.4	27.5	26.9	27.9	28.4
	6H	23.9	24.8	24.4	25.3	25.8	27.4	28.3	27.9	28.8	29.3
	8H	23.9	24.8	24.4	25.3	25.8	27.8	28.7	28.3	29.2	29.7
	12H	24.0	24.7	24.5	25.3	25.8	28.3	29.1	28.8	29.6	30.2
8H	4H	24.1	25.0	24.6	25.5	26.0	26.6	27.5	27.1	28.0	28.5
	6H	24.6	25.3	25.1	25.8	26.4	27.7	28.4	28.2	29.0	29.5
	8H	24.7	25.4	25.2	25.9	26.5	28.3	28.9	28.8	29.5	30.0
	12H	24.8	25.4	25.3	25.9	26.5	28.9	29.5	29.4	30.0	30.6
12H	4H	24.2	25.0	24.7	25.5	26.1	26.6	27.4	27.1	27.9	28.5
	6H	24.8	25.4	25.3	25.9	26.5	27.7	28.4	28.3	28.9	29.5
	8H	25.0	25.6	25.5	26.1	26.7	28.4	28.9	28.9	29.5	30.1

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 2079.4 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.)