



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 MH 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 MH UV FR 940

[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 D10CC30UNVPW-C LED driver labeled as 670mA

[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	5115
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	34.2
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	19830	17704	17245
55	17217	15620	15273
65	13791	13093	12815
75	10007	10443	10041
85	5760	8425	7612

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	627.15	N.A.	12.30
0-30	1333.56	N.A.	26.10
0-40	2183.37	N.A.	42.70
0-60	3826.7	N.A.	74.80
0-80	4767.65	N.A.	93.20
0-90	4951.06	N.A.	96.80
10-90	4789.06	N.A.	93.60
20-40	1556.21	N.A.	30.40
20-50	2428.37	N.A.	47.50
40-70	2222.92	N.A.	43.50
60-80	940.96	N.A.	18.40
70-80	361.37	N.A.	7.10
80-90	183.41	N.A.	3.60
90-110	123.21	N.A.	2.40
90-120	143.82	N.A.	2.80
90-130	154.73	N.A.	3.00
90-150	162.90	N.A.	3.20
90-180	164.34	N.A.	3.20
110-180	41.13	N.A.	0.80
0-180	5115.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.00
10-20	465.15
20-30	706.41
30-40	849.81
40-50	872.16
50-60	771.17
60-70	579.59
70-80	361.37
80-90	183.41
90-100	83.16
100-110	40.05
110-120	20.62
120-130	10.90
130-140	5.58
140-150	2.60
150-160	1.11
160-170	0.32
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	95	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

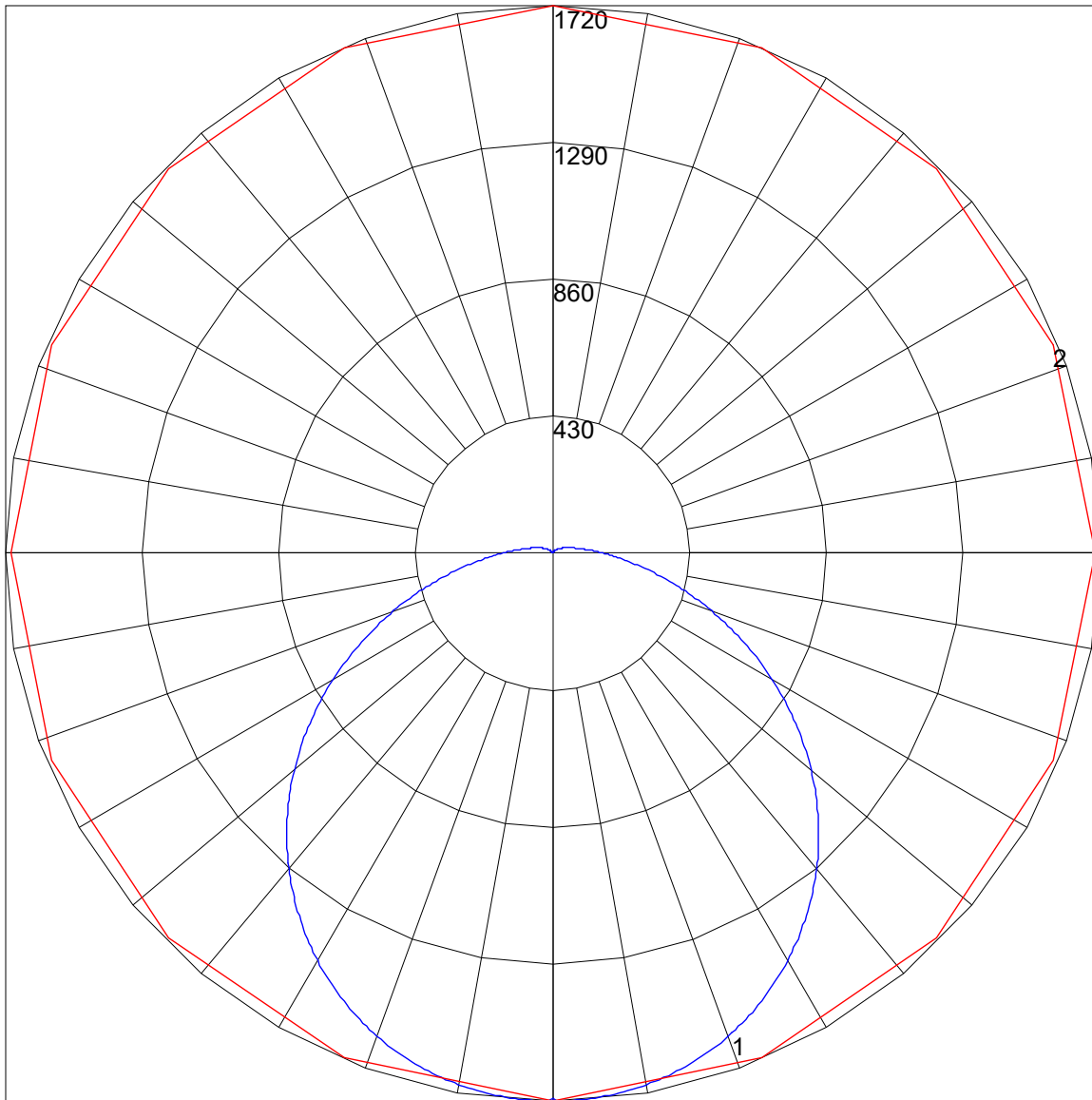
X=2H	Y=2H	20.2	21.8	20.6	22.2	22.6	22.2	23.8	22.6	24.2	24.6
	3H	21.4	22.9	21.9	23.2	23.7	24.2	25.6	24.6	26.0	26.5
	4H	21.8	23.1	22.2	23.5	24.0	25.1	26.4	25.5	26.8	27.3
	6H	22.0	23.2	22.4	23.7	24.1	25.8	27.1	26.3	27.5	28.0
	8H	22.0	23.2	22.5	23.7	24.1	26.2	27.4	26.7	27.9	28.3
	12H	22.0	23.2	22.5	23.6	24.1	26.6	27.8	27.1	28.2	28.7

UGR Viewed Endwise

4H	2H	21.1	22.4	21.5	22.8	23.3	22.7	24.0	23.1	24.4	24.9
	3H	22.5	23.6	22.9	24.1	24.6	24.8	26.0	25.3	26.4	26.9
	4H	23.0	24.0	23.4	24.5	25.0	25.8	26.9	26.3	27.3	27.8
	6H	23.3	24.2	23.8	24.7	25.2	26.8	27.7	27.3	28.2	28.7
	8H	23.3	24.2	23.8	24.7	25.2	27.2	28.1	27.7	28.6	29.1
	12H	23.4	24.1	23.9	24.7	25.2	27.7	28.5	28.2	29.0	29.6
8H	4H	23.5	24.4	24.0	24.9	25.4	26.0	26.9	26.5	27.4	27.9
	6H	24.0	24.7	24.5	25.2	25.8	27.1	27.8	27.6	28.4	28.9
	8H	24.1	24.8	24.6	25.3	25.9	27.7	28.3	28.2	28.9	29.4
	12H	24.2	24.8	24.7	25.3	25.9	28.3	28.9	28.8	29.4	30.0
12H	4H	23.6	24.4	24.1	24.9	25.5	26.0	26.8	26.5	27.3	27.9
	6H	24.2	24.8	24.7	25.3	25.9	27.1	27.8	27.7	28.3	28.9
	8H	24.4	25.0	24.9	25.5	26.1	27.8	28.3	28.3	28.9	29.5

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 1720.431 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.)