



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 LW UV FR 940.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 LW UV FR 940

[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,
[MORE] translucent curved plastic enclosure.

[LAMP] 56 white LEDs on two LS3872A LED boards

[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	2151
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	15.4
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	8337	7443	7250
55	7238	6567	6421
65	5798	5505	5388
75	4207	4391	4222
85	2422	3542	3200

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	263.67	N.A.	12.30
0-30	560.67	N.A.	26.10
0-40	917.95	N.A.	42.70
0-60	1608.85	N.A.	74.80
0-80	2004.46	N.A.	93.20
0-90	2081.56	N.A.	96.80
10-90	2013.46	N.A.	93.60
20-40	654.28	N.A.	30.40
20-50	1020.96	N.A.	47.50
40-70	934.58	N.A.	43.50
60-80	395.61	N.A.	18.40
70-80	151.93	N.A.	7.10
80-90	77.11	N.A.	3.60
90-110	51.80	N.A.	2.40
90-120	60.47	N.A.	2.80
90-130	65.05	N.A.	3.00
90-150	68.49	N.A.	3.20
90-180	69.09	N.A.	3.20
110-180	17.29	N.A.	0.80
0-180	2150.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.11
10-20	195.56
20-30	296.99
30-40	357.28
40-50	366.68
50-60	324.22
60-70	243.67
70-80	151.93
80-90	77.11
90-100	34.96
100-110	16.84
110-120	8.67
120-130	4.58
130-140	2.35
140-150	1.09
150-160	0.47
160-170	0.13
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

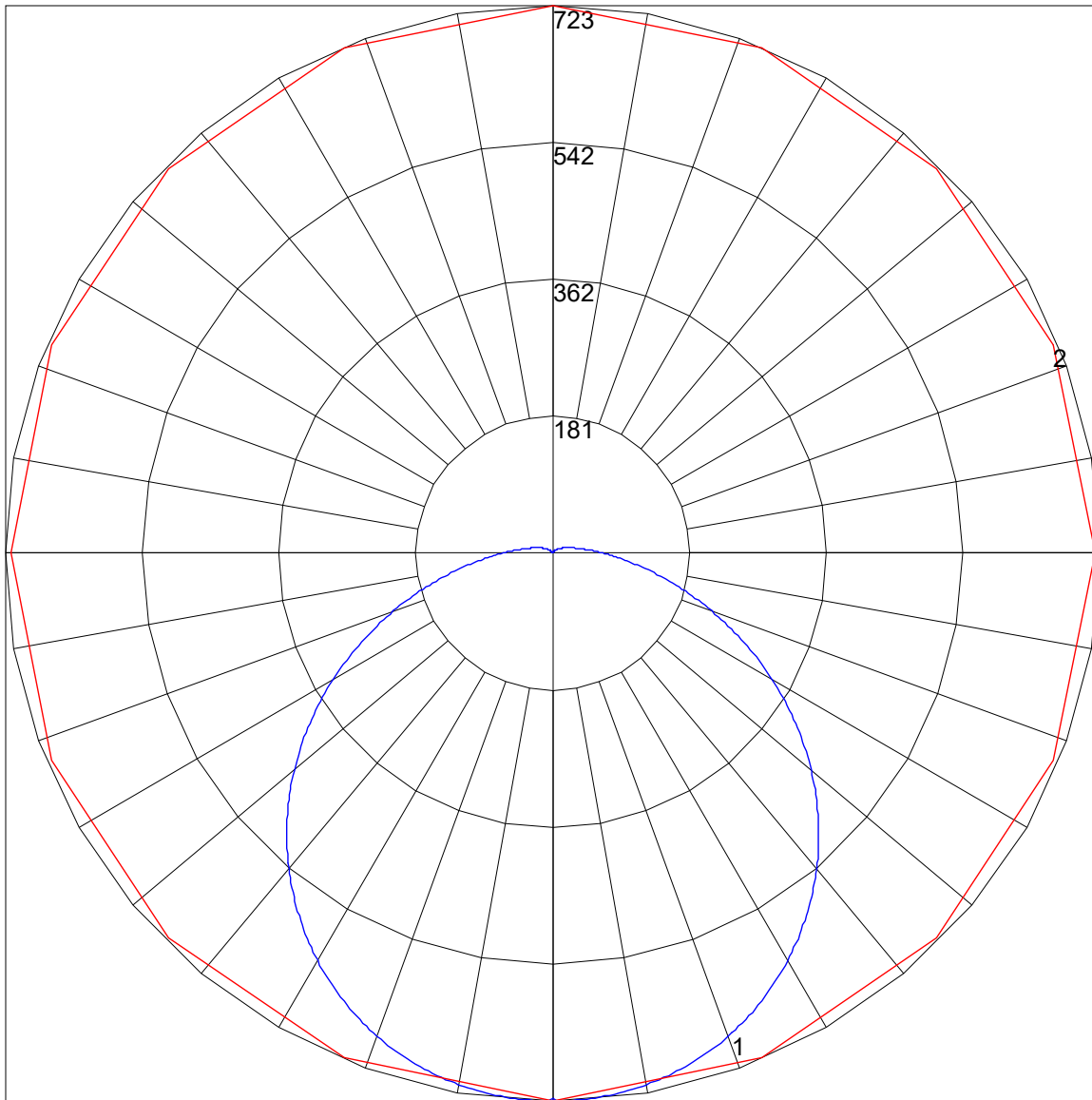
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.2	18.8	17.6	19.2	19.6	19.2	20.8	19.6	21.2	21.6
	3H	18.4	19.9	18.9	20.2	20.7	21.2	22.6	21.6	23.0	23.5
	4H	18.8	20.1	19.2	20.5	21.0	22.1	23.4	22.5	23.8	24.3
	6H	19.0	20.2	19.4	20.7	21.1	22.8	24.1	23.3	24.5	25.0
	8H	19.0	20.2	19.5	20.7	21.1	23.2	24.4	23.7	24.9	25.3
	12H	19.0	20.2	19.5	20.6	21.1	23.6	24.7	24.1	25.2	25.7
4H	2H	18.1	19.4	18.5	19.8	20.3	19.7	21.0	20.1	21.4	21.9
	3H	19.5	20.6	19.9	21.1	21.6	21.8	23.0	22.3	23.4	23.9
	4H	20.0	21.0	20.4	21.5	22.0	22.8	23.9	23.3	24.3	24.8
	6H	20.3	21.2	20.8	21.7	22.2	23.8	24.7	24.3	25.2	25.7
	8H	20.3	21.2	20.8	21.7	22.2	24.2	25.1	24.7	25.6	26.1
	12H	20.4	21.1	20.9	21.7	22.2	24.7	25.5	25.2	26.0	26.6
8H	4H	20.5	21.4	21.0	21.9	22.4	23.0	23.9	23.5	24.4	24.9
	6H	21.0	21.7	21.5	22.2	22.8	24.1	24.8	24.6	25.4	25.9
	8H	21.1	21.8	21.6	22.3	22.9	24.7	25.3	25.2	25.9	26.4
	12H	21.2	21.8	21.7	22.3	22.9	25.3	25.9	25.8	26.4	27.0
12H	4H	20.6	21.4	21.1	21.9	22.5	23.0	23.8	23.5	24.3	24.9
	6H	21.2	21.8	21.7	22.3	22.9	24.1	24.8	24.7	25.3	25.9
	8H	21.4	22.0	21.9	22.5	23.1	24.8	25.3	25.3	25.9	26.5

Maximum UGR = 27.0

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POLAR GRAPH



Maximum Candela = 723.317 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.)