



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 HI 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 HI 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 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	6330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	24537	21906	21339
55	21303	19328	18899
65	17065	16200	15857
75	12382	12922	12424
85	7127	10425	9419

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	776.01	N.A.	12.30
0-30	1650.09	N.A.	26.10
0-40	2701.6	N.A.	42.70
0-60	4734.99	N.A.	74.80
0-80	5899.29	N.A.	93.20
0-90	6126.23	N.A.	96.80
10-90	5925.78	N.A.	93.60
20-40	1925.59	N.A.	30.40
20-50	3004.76	N.A.	47.50
40-70	2750.54	N.A.	43.50
60-80	1164.3	N.A.	18.40
70-80	447.15	N.A.	7.10
80-90	226.94	N.A.	3.60
90-110	152.45	N.A.	2.40
90-120	177.96	N.A.	2.80
90-130	191.45	N.A.	3.00
90-150	201.57	N.A.	3.20
90-180	203.35	N.A.	3.20
110-180	50.89	N.A.	0.80
0-180	6329.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.45
10-20	575.56
20-30	874.08
30-40	1051.51
40-50	1079.17
50-60	954.21
60-70	717.16
70-80	447.15
80-90	226.94
90-100	102.90
100-110	49.56
110-120	25.51
120-130	13.49
130-140	6.90
140-150	3.22
150-160	1.38
160-170	0.40
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

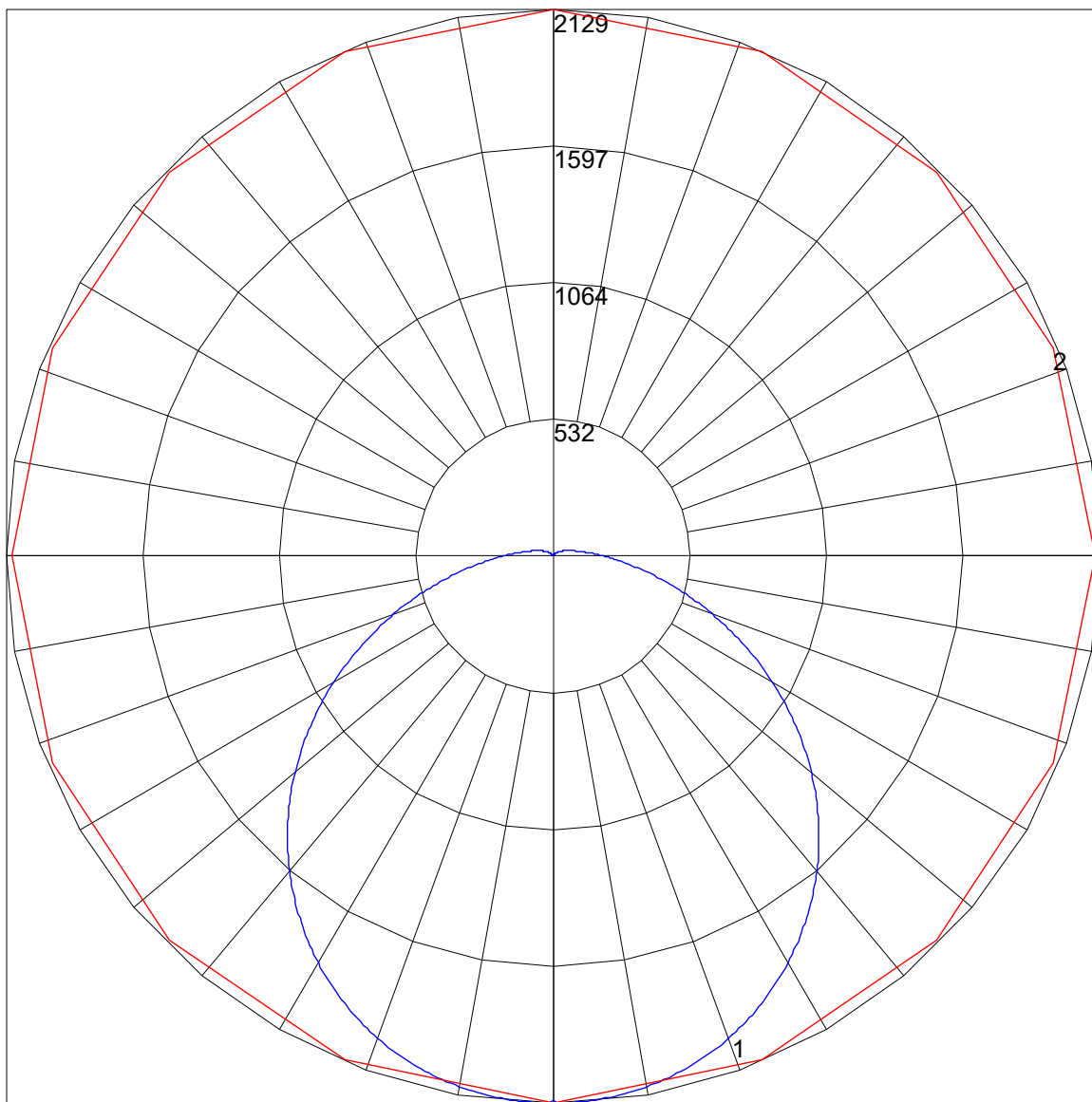
Reflectances

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	20.9	22.5	21.3	22.9	23.3	22.9	24.5	23.3	24.9	25.3
	3H	22.1	23.6	22.6	23.9	24.4	24.9	26.3	25.3	26.7	27.2
	4H	22.5	23.8	22.9	24.2	24.7	25.8	27.1	26.2	27.5	28.0
	6H	22.7	23.9	23.1	24.4	24.8	26.5	27.8	27.0	28.2	28.7
	8H	22.7	23.9	23.2	24.4	24.8	26.9	28.1	27.4	28.6	29.0
	12H	22.7	23.9	23.2	24.3	24.8	27.3	28.4	27.8	28.9	29.4
4H	2H	21.8	23.1	22.2	23.5	24.0	23.4	24.7	23.8	25.1	25.6
	3H	23.2	24.3	23.6	24.8	25.3	25.5	26.7	26.0	27.1	27.6
	4H	23.7	24.7	24.1	25.2	25.7	26.5	27.6	27.0	28.0	28.5
	6H	24.0	24.9	24.5	25.4	25.9	27.5	28.4	28.0	28.9	29.4
	8H	24.0	24.9	24.5	25.4	25.9	27.9	28.8	28.4	29.3	29.8
	12H	24.1	24.8	24.6	25.4	25.9	28.4	29.2	28.9	29.7	30.3
8H	4H	24.2	25.1	24.7	25.6	26.1	26.7	27.6	27.2	28.1	28.6
	6H	24.7	25.4	25.2	25.9	26.5	27.8	28.5	28.3	29.1	29.6
	8H	24.8	25.5	25.3	26.0	26.6	28.4	29.0	28.9	29.6	30.1
	12H	24.9	25.5	25.4	26.0	26.6	29.0	29.6	29.5	30.1	30.7
12H	4H	24.3	25.1	24.8	25.6	26.2	26.7	27.5	27.2	28.0	28.6
	6H	24.9	25.5	25.4	26.0	26.6	27.8	28.5	28.4	29.0	29.6
	8H	25.1	25.7	25.6	26.2	26.8	28.5	29.0	29.0	29.6	30.2

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 2128.787 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.)