



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 HI UV FR 930.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 5/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL N G2 2 HI UV FR 930

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

[MORE] translucent curved plastic enclosure.

[LAMP] 48 white LEDs on one LS3873A LED board

[BALLAST] One ULT D700C20UNVPW-C LED driver labeled as 420mA

[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	3070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	22.6
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)	1.99 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	22163	20251	19989
55	18980	17738	17708
65	15046	14817	15019
75	10801	11880	12008
85	5968	9635	9463

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	375.40	N.A.	12.20
0-30	798.67	N.A.	26.00
0-40	1307.13	N.A.	42.60
0-60	2284.58	N.A.	74.40
0-80	2848.34	N.A.	92.80
0-90	2962.06	N.A.	96.50
10-90	2865.15	N.A.	93.30
20-40	931.73	N.A.	30.30
20-50	1451.32	N.A.	47.30
40-70	1322.71	N.A.	43.10
60-80	563.76	N.A.	18.40
70-80	218.51	N.A.	7.10
80-90	113.72	N.A.	3.70
90-110	78.64	N.A.	2.60
90-120	92.23	N.A.	3.00
90-130	99.69	N.A.	3.20
90-150	106.38	N.A.	3.50
90-180	108.25	N.A.	3.50
110-180	29.61	N.A.	1.00
0-180	3070.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.91
10-20	278.49
20-30	423.28
30-40	508.45
40-50	519.59
50-60	457.86
60-70	345.25
70-80	218.51
80-90	113.72
90-100	52.84
100-110	25.81
110-120	13.58
120-130	7.46
130-140	4.26
140-150	2.43
150-160	1.34
160-170	0.48
170-180	0.05

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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	96
1	107	102	98	93	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	42	35	62	49	41	35	47	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	43	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23

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**UGR TABLE - CORRECTED**

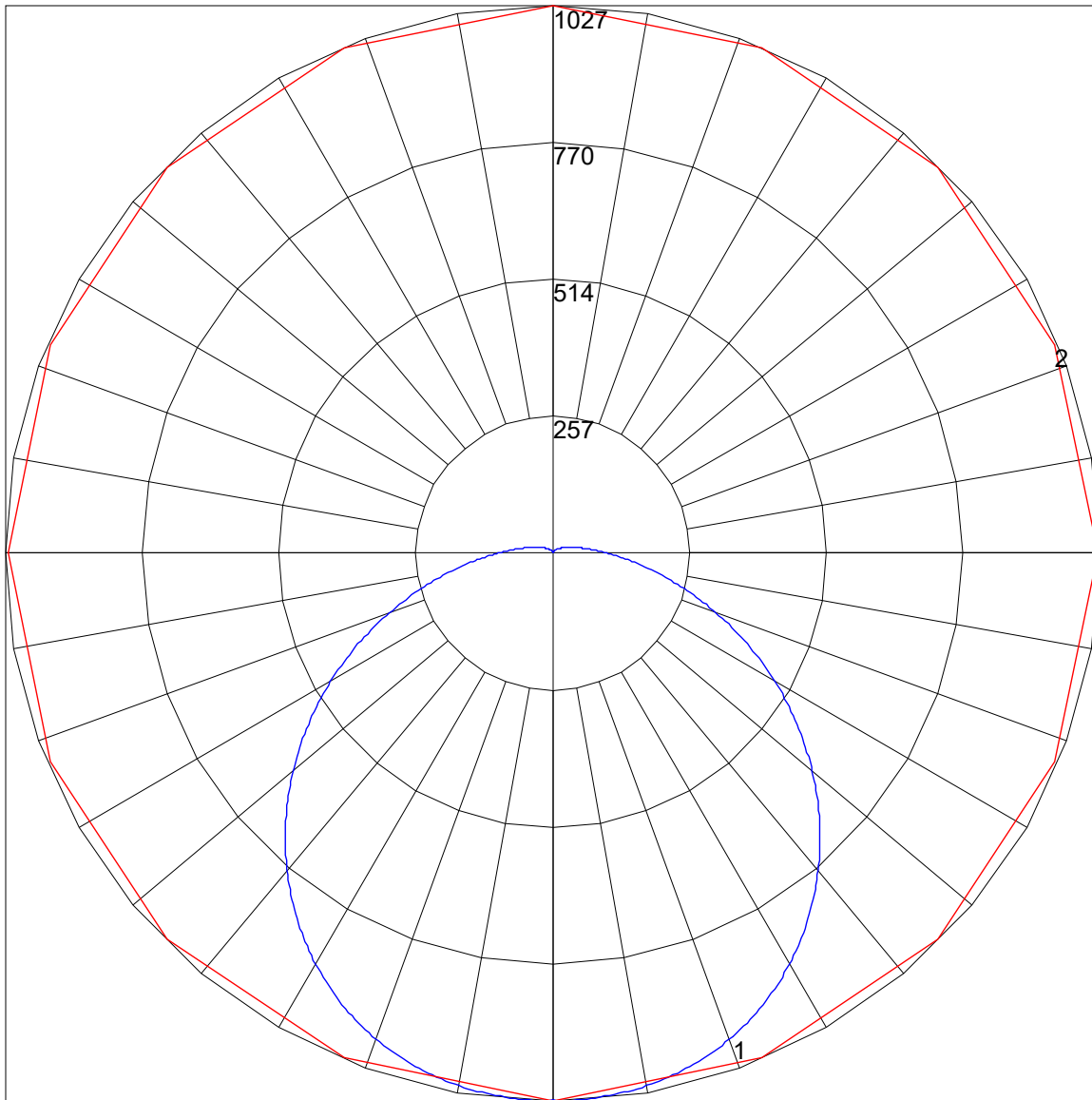
Reflectances

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	20.5	22.0	20.9	22.4	22.9	22.6	24.2	23.0	24.6	25.0
	3H	21.7	23.1	22.1	23.5	24.0	24.6	26.0	25.1	26.4	26.9
	4H	22.0	23.4	22.5	23.8	24.3	25.5	26.8	25.9	27.2	27.7
	6H	22.2	23.5	22.7	23.9	24.4	26.3	27.5	26.8	28.0	28.5
	8H	22.3	23.5	22.8	23.9	24.4	26.7	27.9	27.2	28.3	28.8
	12H	22.3	23.4	22.8	23.9	24.4	27.1	28.2	27.6	28.7	29.2
4H	2H	21.3	22.7	21.8	23.1	23.6	23.0	24.4	23.5	24.8	25.3
	3H	22.8	23.9	23.3	24.4	24.9	25.2	26.4	25.7	26.8	27.3
	4H	23.3	24.3	23.8	24.8	25.3	26.3	27.3	26.8	27.8	28.3
	6H	23.6	24.5	24.1	25.0	25.5	27.2	28.1	27.8	28.6	29.2
	8H	23.6	24.5	24.2	25.0	25.5	27.7	28.5	28.2	29.1	29.6
	12H	23.7	24.4	24.2	25.0	25.5	28.2	29.0	28.7	29.5	30.1
8H	4H	23.8	24.7	24.3	25.2	25.7	26.4	27.3	27.0	27.8	28.4
	6H	24.3	25.0	24.8	25.6	26.1	27.6	28.3	28.1	28.8	29.4
	8H	24.4	25.1	25.0	25.6	26.2	28.2	28.8	28.7	29.4	29.9
	12H	24.5	25.1	25.1	25.6	26.3	28.8	29.4	29.4	29.9	30.6
12H	4H	23.9	24.7	24.5	25.2	25.8	26.4	27.2	27.0	27.7	28.3
	6H	24.5	25.1	25.1	25.7	26.3	27.6	28.2	28.2	28.8	29.4
	8H	24.7	25.3	25.3	25.8	26.5	28.3	28.8	28.8	29.4	30.0

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 1027.086 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.)