



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL N G2 2 LW UV CPA 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001971-001A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 12/21/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] EWL N G2 2 LW UV CPA 940

[LUMINAIRE] Surface/pendant mounted, formed white painted steel housing

[MORE] and LED tray/reflector, clear prismatic plastic lens with linear prismatic

[MORE] sides.

[LAMP] 48 white LEDs on one LS3872B5-4000K-R90 LED board

[BALLAST] One ULT Everline D700C20UNVPW-C LED driver labeled as 290mA

[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	2106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	15.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	0.71 ft
Luminous Height	0.10 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5304	4920	4777
55	3542	3780	3117
65	2568	2545	2339
75	2249	1770	2427
85	1788	1384	2494

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	291.52	N.A.	13.80
0-30	622.68	N.A.	29.60
0-40	1026.23	N.A.	48.70
0-60	1707.42	N.A.	81.10
0-80	1987.91	N.A.	94.40
0-90	2039.96	N.A.	96.90
10-90	1964.78	N.A.	93.30
20-40	734.71	N.A.	34.90
20-50	1130.95	N.A.	53.70
40-70	855.03	N.A.	40.60
60-80	280.49	N.A.	13.30
70-80	106.65	N.A.	5.10
80-90	52.05	N.A.	2.50
90-110	38.12	N.A.	1.80
90-120	49.99	N.A.	2.40
90-130	57.15	N.A.	2.70
90-150	63.04	N.A.	3.00
90-180	65.91	N.A.	3.10
110-180	27.79	N.A.	1.30
0-180	2105.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.18
10-20	216.34
20-30	331.16
30-40	403.54
40-50	396.24
50-60	284.95
60-70	173.84
70-80	106.65
80-90	52.05
90-100	21.11
100-110	17.01
110-120	11.87
120-130	7.17
130-140	3.60
140-150	2.29
150-160	1.63
160-170	0.95
170-180	0.29

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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	109	104	100	96	105	101	98	94	97	94	91	92	90	87	88	86	84	82
2	99	92	85	80	96	89	83	78	85	80	76	82	78	74	78	75	72	70
3	91	81	73	67	88	79	72	66	76	70	65	73	68	63	70	66	62	60
4	84	72	64	58	81	71	63	57	68	61	56	65	60	55	63	58	54	52
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	52	47	45
6	72	59	50	44	69	58	50	44	56	48	43	54	47	42	52	46	42	40
7	66	53	45	39	65	52	44	39	51	43	38	49	43	38	47	42	37	35
8	62	49	41	35	60	48	40	35	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	37	31	43	36	31	41	35	31	40	35	30	29
10	54	41	34	29	53	41	33	28	40	33	28	38	32	28	37	32	28	26

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**UGR TABLE - CORRECTED**

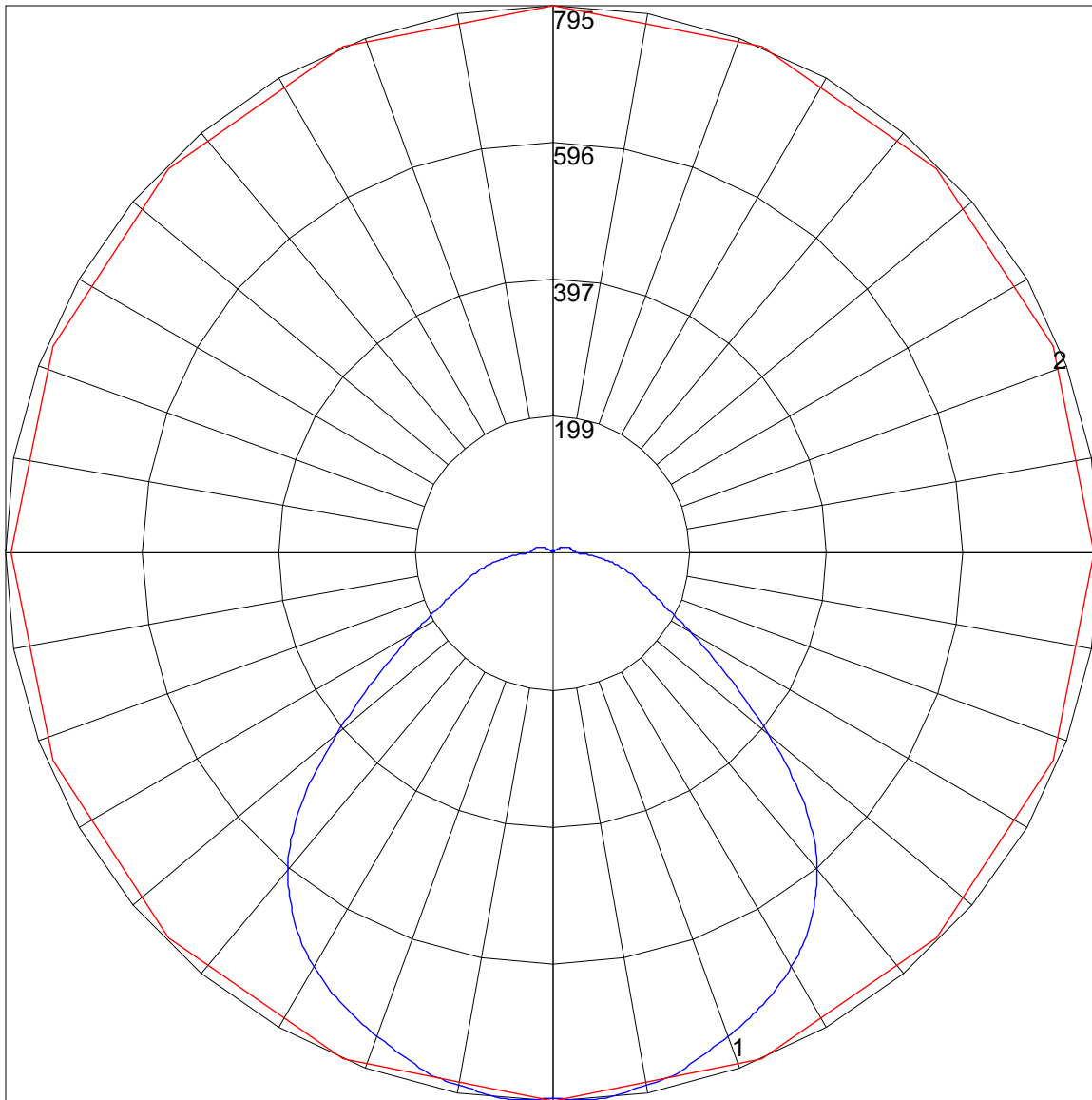
Reflectances

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	15.1	16.6	15.5	17.0	17.4	15.3	16.8	15.7	17.2	17.6
	3H	16.2	17.5	16.6	17.9	18.3	16.8	18.2	17.3	18.6	19.0
	4H	16.6	17.9	17.1	18.3	18.7	17.7	18.9	18.1	19.4	19.8
	6H	17.0	18.1	17.4	18.6	19.0	18.6	19.8	19.0	20.2	20.7
	8H	17.1	18.2	17.6	18.7	19.2	19.0	20.2	19.5	20.6	21.1
	12H	17.2	18.3	17.7	18.7	19.2	19.4	20.5	19.9	21.0	21.5
4H	2H	15.6	16.9	16.1	17.3	17.7	15.8	17.0	16.2	17.4	17.9
	3H	16.8	17.9	17.3	18.4	18.8	17.5	18.6	18.0	19.0	19.5
	4H	17.4	18.3	17.8	18.8	19.3	18.5	19.5	19.0	19.9	20.4
	6H	17.8	18.7	18.3	19.2	19.7	19.6	20.4	20.1	20.9	21.5
	8H	18.0	18.8	18.5	19.3	19.8	20.1	20.9	20.6	21.4	21.9
	12H	18.1	18.8	18.7	19.4	19.9	20.6	21.4	21.2	21.9	22.4
8H	4H	17.6	18.4	18.1	18.9	19.4	18.7	19.5	19.2	20.0	20.5
	6H	18.2	18.9	18.7	19.4	19.9	19.9	20.6	20.4	21.1	21.7
	8H	18.4	19.0	19.0	19.6	20.1	20.5	21.1	21.1	21.7	22.3
	12H	18.6	19.2	19.2	19.7	20.3	21.2	21.8	21.8	22.3	22.9
12H	4H	17.7	18.4	18.2	18.9	19.5	18.7	19.4	19.2	19.9	20.4
	6H	18.3	18.9	18.9	19.4	20.0	19.9	20.5	20.5	21.0	21.7
	8H	18.6	19.1	19.1	19.7	20.3	20.6	21.2	21.2	21.7	22.3

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 794.746 Located At Horizontal Angle = 67.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)