



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 4 LW UV FA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA002568-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 1/3/2025

[MANUFAC] LumenFocus, LLC

[LUMCAT] EWL S G2 4 LW UV FA 940

[LUMINAIRE] Surface or pendant mounted, formed white painted steel housing,
[MORE] formed white painted steel reflector, frosted plastic enclosure with interior

[MORE] linear prisms

[LAMPCAT] Two CL116-4000K-R90-A5 CREE G CLASS PRO 9 48UP LED boards with 48 LEDs each.

[BALLAST] One Keystone Technologies KTLD-50-UV-P1400-55-VDIM-LT1 LED driver set at 700mA

[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	5439
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	35.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.44 ft
Luminous Height	0.12 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8405	7868	8087
55	7511	7074	7498
65	6461	6204	6891
75	5047	5257	6262
85	2519	4324	5751

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	621.42	N.A.	11.40
0-30	1311.56	N.A.	24.10
0-40	2132.21	N.A.	39.20
0-60	3735.33	N.A.	68.70
0-80	4752.25	N.A.	87.40
0-90	4972.96	N.A.	91.40
10-90	4811.56	N.A.	88.50
20-40	1510.78	N.A.	27.80
20-50	2351.92	N.A.	43.20
40-70	2210.08	N.A.	40.60
60-80	1016.92	N.A.	18.70
70-80	409.96	N.A.	7.50
80-90	220.71	N.A.	4.10
90-110	222.14	N.A.	4.10
90-120	301.27	N.A.	5.50
90-130	363.87	N.A.	6.70
90-150	439.88	N.A.	8.10
90-180	466.22	N.A.	8.60
110-180	244.08	N.A.	4.50
0-180	5439.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.40
10-20	460.02
20-30	690.14
30-40	820.64
40-50	841.13
50-60	761.99
60-70	606.96
70-80	409.96
80-90	220.71
90-100	124.28
100-110	97.86
110-120	79.13
120-130	62.61
130-140	46.03
140-150	29.98
150-160	16.70
160-170	7.61
170-180	2.02

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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	106	101	96	92	102	97	93	89	92	88	85	86	83	81	81	79	77	74
2	96	87	80	74	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	87	76	68	61	84	74	66	60	70	63	58	66	61	56	62	58	54	51
4	80	68	59	52	77	66	57	51	62	55	49	59	53	48	56	50	46	44
5	73	60	51	44	71	59	50	44	56	48	43	53	46	41	50	45	40	38
6	68	54	45	39	65	53	44	38	50	43	37	48	41	36	45	40	35	33
7	63	49	40	34	60	48	40	34	46	38	33	43	37	32	41	36	31	29
8	58	45	36	30	56	44	36	30	42	35	29	40	33	29	38	32	28	26
9	55	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	25	49	37	30	24	36	29	24	34	28	23	33	27	23	21

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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	17.0	18.5	17.5	19.0	19.5	19.3	20.7	19.8	21.2	21.8
	3H	18.4	19.7	18.9	20.2	20.8	21.6	22.9	22.1	23.4	24.0
	4H	18.8	20.1	19.4	20.6	21.2	22.6	23.9	23.1	24.4	25.0
	6H	19.1	20.3	19.7	20.8	21.4	23.7	24.8	24.2	25.4	26.0
	8H	19.2	20.3	19.7	20.8	21.4	24.2	25.3	24.7	25.8	26.4
	12H	19.2	20.2	19.7	20.8	21.4	24.7	25.8	25.3	26.3	27.0

UGR Viewed Endwise

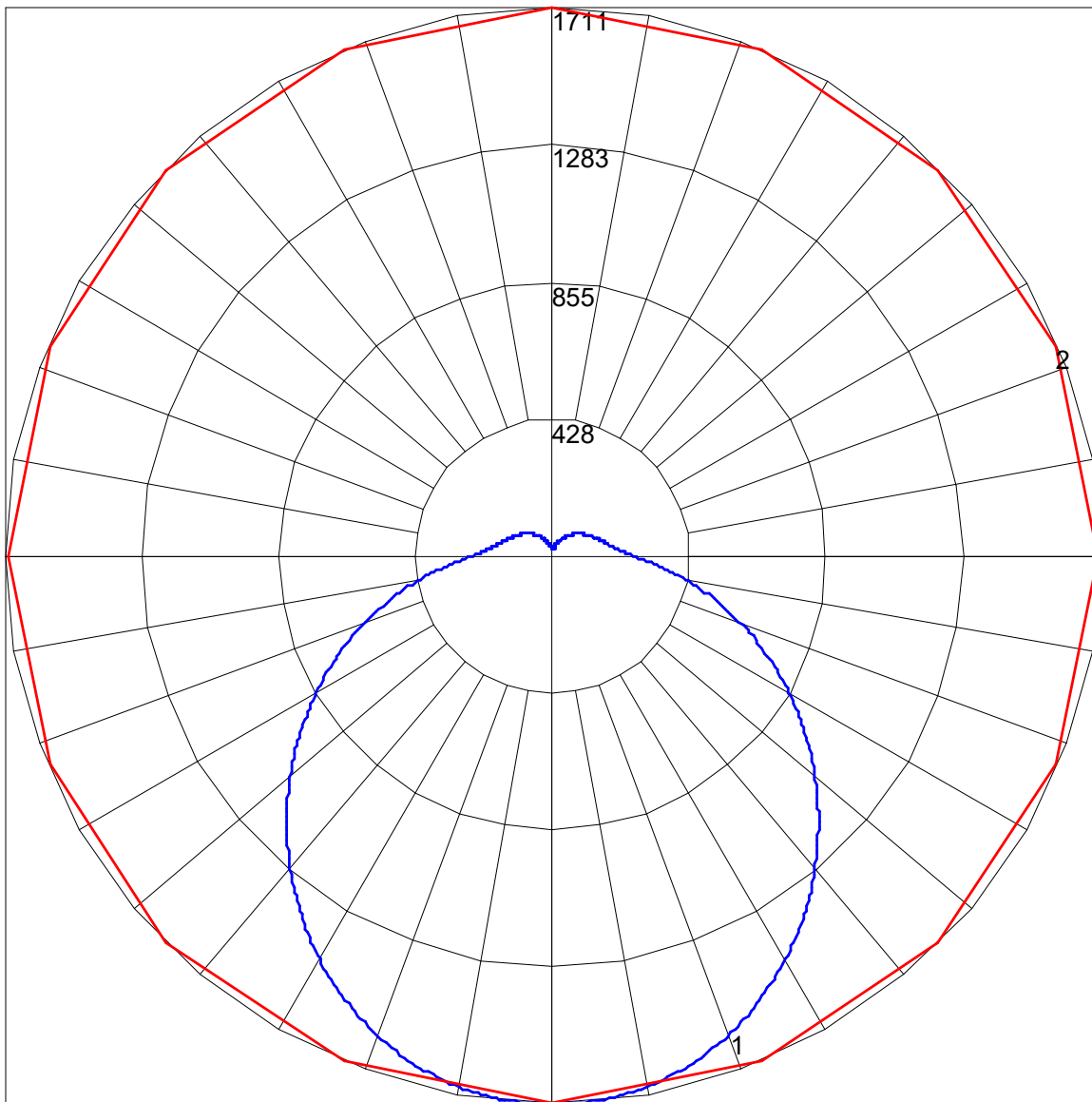
4H	2H	17.9	19.1	18.4	19.6	20.2	19.7	20.9	20.2	21.4	22.0
	3H	19.5	20.6	20.1	21.1	21.7	22.2	23.2	22.7	23.8	24.4
	4H	20.1	21.0	20.6	21.6	22.2	23.4	24.4	24.0	24.9	25.6
	6H	20.4	21.3	21.0	21.9	22.5	24.6	25.5	25.2	26.1	26.7
	8H	20.5	21.3	21.1	21.9	22.6	25.2	26.0	25.8	26.6	27.3
	12H	20.5	21.3	21.1	21.9	22.6	25.9	26.6	26.5	27.2	27.9

8H	4H	20.7	21.5	21.3	22.1	22.7	23.6	24.4	24.2	25.0	25.6
	6H	21.2	21.9	21.8	22.5	23.2	25.0	25.6	25.6	26.3	27.0
	8H	21.3	21.9	22.0	22.6	23.3	25.7	26.3	26.3	27.0	27.6
	12H	21.4	22.0	22.1	22.6	23.4	26.5	27.1	27.2	27.7	28.5

12H	4H	20.8	21.6	21.4	22.2	22.9	23.6	24.3	24.2	24.9	25.6
	6H	21.4	22.0	22.1	22.7	23.4	25.0	25.6	25.6	26.2	27.0
	8H	21.7	22.2	22.3	22.8	23.6	25.8	26.3	26.4	27.0	27.7

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 1710.981 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)