

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1313820

Luminaire Tested: LDSQA3D17R309727DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R309727DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

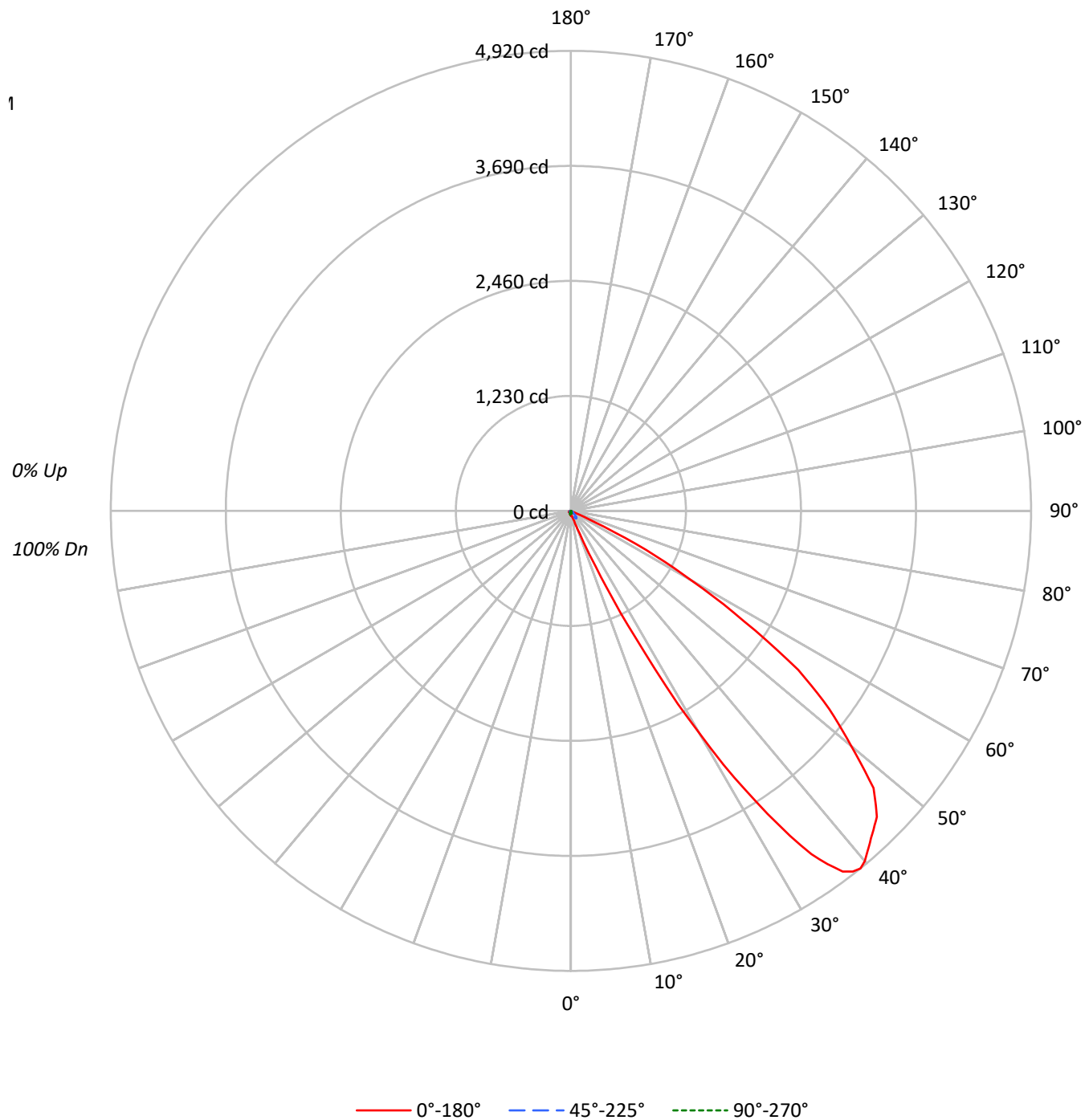
Lumens per Lamp: N/A
Luminaire Lumens: 1279.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	26	26	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	22	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8542	8542	8542	8542	8542
5°	9128	8938	8385	7641	7451
10°	9986	8849	7345	6593	6401
15°	14603	8844	6151	5563	5759
20°	36728	9677	4747	4747	5333
25°	170549	12086	3687	4295	4922
30°	542923	16705	2784	4077	4932
35°	942066	20394	2271	3847	4983
40°	1098699	20346	1686	3867	5081
45°	1126780	14443	1827	4189	5504
50°	1047851	8092	1447	4340	6350
55°	890574	4204	1621	4864	7116
60°	514326	1102	1860	5201	7784
65°	104935	0	2201	6153	8762
70°	1611	554	2719	7050	10323
75°	1464	732	2861	7187	12177
80°	1091	1091	4265	8529	13885
85°	0	2174	8497	8497	16994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1126780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.4
10°-20°	12.9	1.0
20°-30°	73.8	5.8
30°-40°	344.5	26.9
40°-50°	487.2	38.1
50°-60°	299.7	23.4
60°-70°	45.7	3.6
70°-80°	7.2	0.6
80°-90°	3.6	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	91.1	7.1
0°-40°	435.6	34.1
0°-60°	1222.5	95.6
0°-90°	1279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	53	52	48	44	43	5
15°	82	50	34	31	32	29
25°	898	64	19	23	26	552
35°	4481	97	11	18	24	2689
45°	4626	59	8	17	23	3507
55°	2966	14	5	16	24	2524
65°	258	0	5	15	22	466
75°	2	1	4	11	18	2
85°	0	1	4	4	9	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	50.6	50.6	51.7	51.7	50.6	51.7	51.7	51.7	49.6	48.5	46.3
5°	52.8	52.8	52.8	53.9	52.8	52.8	51.7	50.6	48.5	45.2	44.2
7.5°	54.9	54.9	53.9	54.9	53.9	53.9	51.7	49.6	46.3	43.1	40.9
10°	57.1	57.1	56.0	56.0	54.9	54.9	50.6	47.4	42.0	38.8	37.7
12.5°	63.6	63.6	62.5	61.4	59.3	58.2	49.6	44.2	37.7	34.5	33.4
15°	81.9	80.8	78.6	75.4	70.0	69.0	49.6	40.9	34.5	31.2	31.2
17.5°	112.0	111.0	107.7	99.1	89.4	86.2	49.6	36.6	30.2	28.0	28.0
20°	200.4	191.8	175.6	154.1	131.4	119.6	52.8	32.3	25.9	24.8	25.9
21°	261.8	253.2	232.7	197.2	157.3	144.4	54.9	31.2	24.8	23.7	25.9
22°	356.6	346.9	304.9	256.4	199.3	176.7	56.0	29.1	22.6	22.6	24.8
23°	497.7	481.6	410.5	332.9	248.9	216.6	58.2	28.0	21.5	22.6	23.7
24°	651.8	637.8	557.0	440.6	317.8	271.5	60.3	26.9	20.5	20.5	22.6
25°	897.5	881.3	738.0	555.9	402.9	326.4	63.6	24.8	19.4	19.4	22.6
26°	1215.3	1140.9	950.2	716.5	496.7	409.4	66.8	23.7	18.3	19.4	21.5
27°	1516.9	1455.5	1241.1	919.0	614.1	503.1	71.1	22.6	17.2	18.3	21.5
28°	1913.4	1827.2	1556.8	1162.5	773.6	608.7	75.4	21.5	16.2	18.3	20.5
29°	2357.3	2236.6	1910.2	1436.1	953.5	727.2	79.7	20.5	15.1	17.2	20.5
30°	2730.1	2616.9	2290.5	1760.4	1160.3	883.4	84.0	19.4	14.0	17.2	20.5
31°	3167.5	2996.2	2600.8	2035.2	1338.1	1039.7	88.3	17.2	12.9	16.2	19.4
32°	3521.9	3402.4	2982.2	2345.4	1571.9	1212.0	91.6	16.2	12.9	16.2	19.4
33°	3864.5	3704.0	3297.8	2642.8	1783.1	1388.7	94.8	15.1	11.9	15.1	19.4
34°	4192.1	4044.5	3596.3	2883.1	1982.4	1556.8	97.0	12.9	11.9	15.1	18.3
35°	4480.8	4309.5	3859.2	3117.9	2187.1	1709.8	97.0	11.9	10.8	14.0	18.3
36°	4668.3	4545.4	4087.6	3349.6	2372.4	1855.2	97.0	10.8	9.7	14.0	17.2
37°	4828.8	4685.5	4270.7	3527.3	2509.2	1971.6	97.0	9.7	9.7	14.0	17.2
38°	4894.5	4771.7	4396.8	3684.6	2637.4	2090.1	95.9	8.6	8.6	12.9	17.2
39°	4920.4	4810.5	4491.6	3797.7	2732.2	2169.8	93.7	7.5	8.6	12.9	17.2
40°	4887.0	4804.0	4540.1	3871.0	2807.6	2228.0	90.5	6.5	7.5	12.9	17.2
42.5°	4749.1	4694.1	4529.3	3944.3	2872.3	2271.1	78.6	4.3	7.5	11.9	17.2
45°	4626.3	4565.9	4420.5	3867.8	2788.2	2186.0	59.3	2.2	7.5	11.9	17.2
47.5°	4388.2	4350.4	4236.2	3672.8	2604.0	1994.2	42.0	1.1	6.5	10.8	16.2
50°	3910.9	3875.3	3724.5	3189.0	2239.9	1686.1	30.2	1.1	5.4	10.8	16.2
52.5°	3483.2	3445.4	3228.9	2651.4	1720.6	1235.7	19.4	1.1	5.4	10.8	16.2
55°	2966.0	2900.3	2615.9	2012.5	1219.6	828.5	14.0	1.1	5.4	9.7	16.2
57.5°	2195.7	2099.8	1845.5	1372.6	702.4	449.3	7.5	1.1	5.4	9.7	16.2
60°	1493.2	1436.1	1154.9	724.0	299.5	189.6	3.2	1.1	5.4	9.7	15.1
62.5°	905.0	832.8	580.7	308.1	129.3	86.2	0.0	2.2	5.4	9.7	15.1
65°	257.5	228.4	151.9	70.0	36.6	28.0	0.0	2.2	5.4	9.7	15.1
67.5°	8.6	8.6	8.6	7.5	5.4	5.4	1.1	2.2	5.4	9.7	14.0
70°	3.2	3.2	3.2	2.2	2.2	1.1	1.1	2.2	5.4	8.6	14.0
72.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	2.2	4.3	7.5	12.9
75°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	3.2	4.3	7.5	10.8
77.5°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	3.2	4.3	6.5	10.8
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2	4.3	6.5	8.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	3.2	4.3	4.3	6.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	4.3	3.2	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	3.2	3.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	49.6	49.6
2.5°	46.3	46.3
5°	43.1	43.1
7.5°	39.9	39.9
10°	36.6	36.6
12.5°	34.5	34.5
15°	31.2	32.3
17.5°	29.1	30.2
20°	28.0	29.1
21°	28.0	29.1
22°	26.9	28.0
23°	26.9	28.0
24°	25.9	26.9
25°	24.8	25.9
26°	24.8	25.9
27°	24.8	25.9
28°	23.7	25.9
29°	23.7	24.8
30°	23.7	24.8
31°	22.6	24.8
32°	22.6	24.8
33°	22.6	23.7
34°	21.5	23.7
35°	21.5	23.7
36°	21.5	23.7
37°	21.5	22.6
38°	21.5	23.7
39°	21.5	22.6
40°	21.5	22.6
42.5°	21.5	22.6
45°	21.5	22.6
47.5°	21.5	23.7
50°	21.5	23.7
52.5°	21.5	23.7
55°	21.5	23.7
57.5°	21.5	22.6
60°	21.5	22.6
62.5°	20.5	22.6
65°	20.5	21.5
67.5°	20.5	21.5
70°	19.4	20.5
72.5°	18.3	19.4
75°	16.2	18.3
77.5°	15.1	16.2
80°	12.9	14.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	10.8	10.8
85°	7.5	8.6
87.5°	4.3	4.3
90°	0.0	0.0

(END OF REPORT)