

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: P1315781

Luminaire Tested: LDSQA3D17R359735DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R359735DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

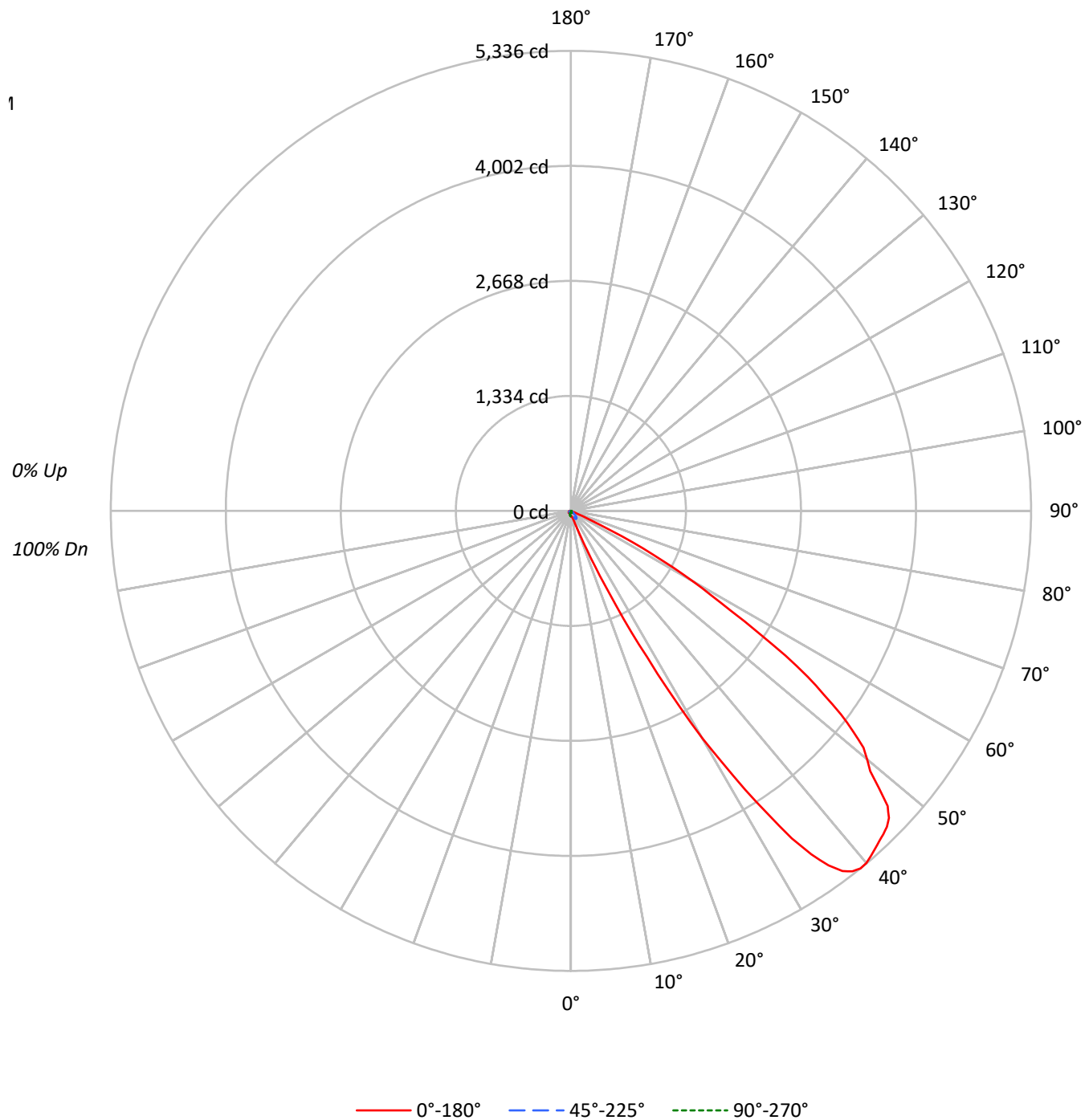
Lumens per Lamp: N/A
Luminaire Lumens: 1329.0 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10540	10540	10540	10540	10540
5°	11410	11203	10373	9336	9128
10°	11962	10912	9234	7975	7975
15°	17117	10698	7489	6847	7061
20°	42868	11436	5938	5938	6598
25°	199015	14594	4561	5473	6157
30°	605049	19807	3580	5011	6205
35°	1022548	22959	3028	4794	6055
40°	1198632	22662	2428	4856	6475
45°	1262296	16075	2046	5261	7015
50°	1201536	9646	1929	5466	7716
55°	1006835	3963	2162	6125	9008
60°	563650	827	2480	7027	9920
65°	97273	489	2445	7824	11247
70°	1813	604	3021	8460	12689
75°	1597	799	3993	9582	14373
80°	1190	1190	4761	10711	16662
85°	0	2371	9485	11856	18970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1271231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.4
10°-20°	15.7	1.2
20°-30°	81.6	6.1
30°-40°	352.2	26.5
40°-50°	502.3	37.8
50°-60°	311.1	23.4
60°-70°	47.4	3.6
70°-80°	8.9	0.7
80°-90°	4.4	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°	102.7	7.7
0°-40°	454.9	34.2
0°-60°	1268.4	95.4
0°-90°	1329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1329.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	61	61	61	61	61	
5°	66	65	60	54	53	6
15°	96	60	42	38	40	35
25°	1047	77	24	29	32	627
35°	4864	109	14	23	29	2920
45°	5183	66	8	22	29	3916
55°	3353	13	7	20	30	2856
65°	239	1	6	19	28	488
75°	2	1	6	14	22	3
85°	0	1	5	6	10	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
2.5°	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	61.2	60.0
5°	66.0	66.0	64.8	64.8	64.8	64.8	64.8	64.8	62.4	60.0	56.4
7.5°	67.2	67.2	66.0	66.0	66.0	66.0	64.8	63.6	61.2	56.4	52.8
10°	68.4	68.4	68.4	68.4	67.2	66.0	64.8	62.4	58.8	52.8	49.2
12.5°	76.8	76.8	75.6	73.2	70.8	68.4	66.0	61.2	54.0	48.0	44.4
15°	96.0	94.8	92.4	88.8	84.0	78.0	73.2	60.0	49.2	42.0	39.6
17.5°	134.4	132.0	128.4	116.4	105.6	94.8	85.2	60.0	44.4	37.2	34.8
20°	233.9	235.1	209.9	181.2	157.2	130.8	106.8	62.4	39.6	32.4	31.2
22.5°	488.3	469.1	409.1	339.5	259.1	200.4	151.2	68.4	34.8	27.6	27.6
25°	1047.3	974.2	829.0	626.2	441.5	313.1	219.5	76.8	31.2	24.0	25.2
27.5°	1912.3	1846.3	1554.8	1170.9	777.4	472.7	297.5	87.6	27.6	20.4	22.8
30°	3042.5	2860.1	2479.8	1919.5	1299.3	723.4	399.5	99.6	22.8	18.0	21.6
31°	3395.2	3311.2	2848.1	2220.7	1522.4	859.0	442.7	103.2	21.6	18.0	20.4
32°	3813.9	3665.1	3250.0	2550.6	1749.2	980.2	494.3	106.8	20.4	15.6	20.4
33°	4188.2	4044.2	3539.1	2840.9	1978.3	1118.1	549.5	108.0	18.0	15.6	19.2
34°	4581.7	4384.9	3884.7	3144.4	2213.5	1266.9	599.9	109.2	16.8	14.4	19.2
35°	4863.6	4666.9	4182.2	3384.4	2416.2	1398.9	657.4	109.2	15.6	14.4	18.0
36°	5082.0	4909.2	4438.9	3631.5	2617.8	1517.6	703.0	109.2	13.2	13.2	18.0
37°	5231.9	5067.6	4611.7	3843.9	2771.3	1623.2	743.8	109.2	12.0	13.2	18.0
38°	5305.1	5168.3	4778.4	3998.6	2920.1	1706.0	776.2	106.8	10.8	12.0	16.8
39°	5336.3	5224.7	4880.4	4129.4	3031.7	1778.0	800.2	104.4	9.6	12.0	16.8
40°	5331.5	5234.3	4938.0	4219.4	3121.6	1827.2	813.4	100.8	8.4	10.8	16.8
41°	5303.9	5219.9	4968.0	4296.2	3175.6	1860.7	817.0	97.2	7.2	10.8	15.6
42°	5272.7	5195.9	4977.6	4336.9	3210.4	1871.5	807.4	92.4	7.2	9.6	15.6
43°	5240.3	5169.5	4977.6	4350.1	3218.8	1864.3	791.8	84.0	6.0	9.6	15.6
44°	5213.9	5146.7	4962.0	4346.5	3200.8	1836.8	763.0	74.4	4.8	9.6	15.6
45°	5182.7	5116.8	4941.6	4323.7	3166.0	1790.0	727.0	66.0	3.6	8.4	15.6
46°	5127.5	5076.0	4905.6	4277.0	3110.8	1725.2	681.4	60.0	2.4	8.4	14.4
47°	5020.8	4976.4	4836.0	4207.4	3037.7	1648.4	634.6	54.0	2.4	8.4	14.4
48°	4806.0	4804.8	4696.9	4077.8	2921.3	1552.4	585.5	48.0	2.4	8.4	14.4
49°	4598.5	4576.9	4442.5	3849.9	2754.5	1437.2	533.9	43.2	1.2	8.4	14.4
50°	4484.5	4437.7	4217.0	3581.1	2541.0	1277.7	478.7	36.0	1.2	7.2	14.4
51°	4365.7	4298.6	4038.2	3338.8	2286.6	1124.1	418.7	28.8	1.2	7.2	13.2
52°	4151.0	4087.4	3795.9	3107.2	2039.5	967.0	361.1	24.0	1.2	7.2	14.4
53°	3919.4	3828.3	3511.5	2852.9	1822.4	827.8	302.3	20.4	1.2	7.2	13.2
54°	3627.9	3587.1	3223.6	2541.0	1568.0	693.4	248.3	16.8	1.2	7.2	13.2
55°	3353.2	3293.2	2915.3	2221.9	1337.7	568.7	207.5	13.2	1.2	7.2	13.2
56°	3002.9	2912.9	2559.0	1929.1	1103.7	458.3	175.2	10.8	1.2	7.2	13.2
57°	2585.4	2489.4	2209.9	1604.0	866.2	349.1	146.4	8.4	1.2	7.2	13.2
58°	2187.1	2104.3	1804.4	1238.1	652.6	242.3	121.2	6.0	1.2	6.0	13.2
59°	1889.5	1798.4	1500.8	952.6	453.5	178.8	91.2	4.8	1.2	7.2	13.2
60°	1636.4	1518.8	1208.1	737.8	323.9	128.4	67.2	2.4	2.4	7.2	13.2
62.5°	943.0	832.6	577.1	299.9	133.2	66.0	32.4	1.2	2.4	7.2	13.2
65°	238.7	212.3	138.0	64.8	37.2	22.8	12.0	1.2	2.4	6.0	12.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	8.4	8.4	8.4	7.2	6.0	4.8	2.4	1.2	2.4	6.0	12.0
70°	3.6	3.6	3.6	2.4	2.4	1.2	1.2	1.2	2.4	6.0	10.8
72.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.6	6.0	9.6
75°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.6	6.0	9.6
77.5°	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8	8.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8	7.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.6	4.8	6.0
85°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.6	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	4.8	3.6
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):

	135°	157.5°	180°
0°	61.2	61.2	61.2
2.5°	57.6	57.6	57.6
5°	54.0	54.0	52.8
7.5°	50.4	49.2	49.2
10°	45.6	45.6	45.6
12.5°	42.0	42.0	42.0
15°	38.4	39.6	39.6
17.5°	34.8	37.2	37.2
20°	32.4	34.8	36.0
22.5°	30.0	32.4	33.6
25°	28.8	31.2	32.4
27.5°	26.4	30.0	32.4
30°	25.2	28.8	31.2
31°	25.2	28.8	30.0
32°	24.0	28.8	30.0
33°	24.0	28.8	30.0
34°	24.0	27.6	30.0
35°	22.8	27.6	28.8
36°	22.8	27.6	28.8
37°	22.8	27.6	30.0
38°	22.8	27.6	28.8
39°	21.6	27.6	28.8
40°	21.6	27.6	28.8
41°	21.6	27.6	28.8
42°	21.6	27.6	28.8
43°	21.6	27.6	28.8
44°	21.6	26.4	28.8
45°	21.6	26.4	28.8
46°	21.6	27.6	28.8
47°	21.6	27.6	30.0
48°	21.6	26.4	28.8
49°	20.4	26.4	28.8
50°	20.4	26.4	28.8
51°	20.4	27.6	30.0
52°	20.4	27.6	30.0
53°	20.4	27.6	30.0
54°	20.4	27.6	28.8
55°	20.4	27.6	30.0
56°	20.4	27.6	28.8
57°	20.4	27.6	28.8
58°	20.4	26.4	28.8
59°	20.4	26.4	28.8
60°	20.4	26.4	28.8
62.5°	19.2	26.4	28.8
65°	19.2	25.2	27.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	18.0	25.2	26.4
70°	16.8	24.0	25.2
72.5°	15.6	22.8	24.0
75°	14.4	20.4	21.6
77.5°	12.0	18.0	20.4
80°	10.8	15.6	16.8
82.5°	8.4	13.2	14.4
85°	6.0	9.6	9.6
87.5°	2.4	4.8	4.8
90°	0.0	0.0	0.0

(END OF REPORT)