

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: P1315716

Luminaire Tested: LDSQA3D17R159735DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R159735DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

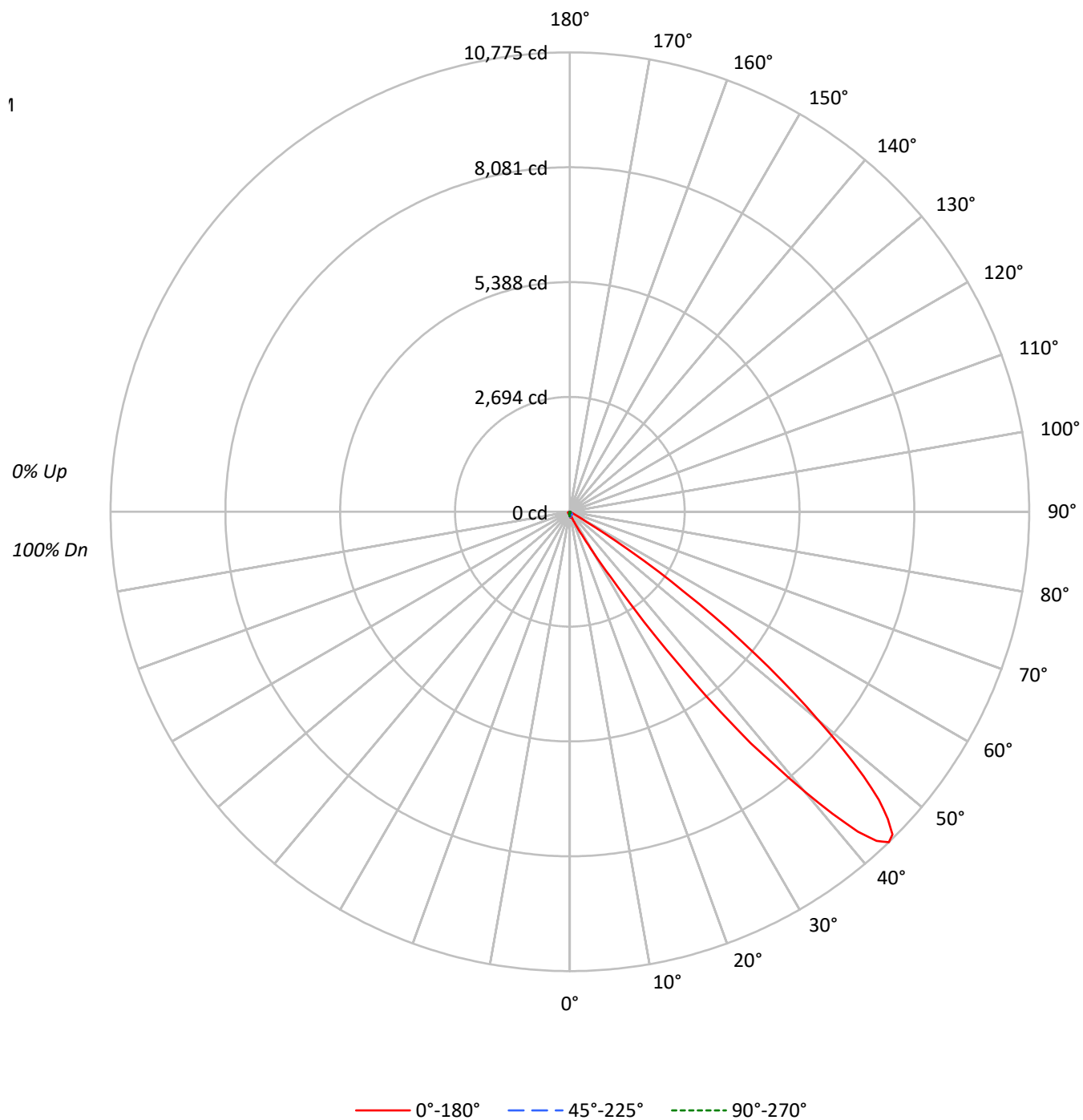
Lumens per Lamp: N/A
Luminaire Lumens: 1203.1 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	101	93	87	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	53
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	37	49	42	37	48	42	37
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18393	18393	18393	18393	18393
5°	22803	20331	16597	14522	14315
10°	22437	17418	12801	11332	11542
15°	18614	12410	9200	9414	10056
20°	32311	9897	7038	8137	9237
25°	72020	11858	5701	7525	8665
30°	215411	14557	5011	7398	9068
35°	829206	16399	4541	7569	9587
40°	1924667	14299	4317	7824	10252
45°	2606867	10814	3800	8476	11106
50°	2043991	6430	3858	9002	12218
55°	981073	2883	3603	9728	13332
60°	89659	413	3307	10333	14880
65°	9780	0	2934	10758	16138
70°	2417	0	3626	11481	17523
75°	2396	799	4791	12776	19963
80°	2380	2380	5951	13092	21423
85°	2371	2371	9485	11856	23712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2606867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	0.8
10°-20°	19.0	1.6
20°-30°	45.5	3.8
30°-40°	248.8	20.7
40°-50°	602.6	50.1
50°-60°	240.4	20.0
60°-70°	20.8	1.7
70°-80°	11.7	1.0
80°-90°	5.2	0.4
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°	73.6	6.1
0°-40°	322.4	26.8
0°-60°	1165.4	96.9
0°-90°	1203.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1203.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	132	118	96	84	83	12
15°	104	70	52	53	56	36
25°	379	62	30	40	46	229
35°	3944	78	22	36	46	2787
45°	10703	44	16	35	46	7550
55°	3267	10	12	32	44	3044
65°	24	0	7	26	40	62
75°	4	1	7	19	30	3
85°	1	1	5	6	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
2.5°	120.0	120.0	121.1	120.0	120.0	120.0	120.0	118.8	118.8	118.8	115.2
5°	131.9	131.9	131.9	131.9	130.7	130.7	130.7	129.5	129.5	128.3	117.6
7.5°	136.7	136.7	135.5	135.5	134.3	134.3	133.1	131.9	130.7	129.5	112.8
10°	128.3	128.3	128.3	127.1	127.1	125.9	124.7	123.5	122.3	120.0	99.6
12.5°	114.0	114.0	115.2	114.0	112.8	111.6	109.2	108.0	106.8	104.4	82.8
15°	104.4	104.4	104.4	103.2	102.0	99.6	98.4	96.0	94.8	91.2	69.6
17.5°	133.1	133.1	131.9	129.5	124.7	121.1	115.2	110.4	104.4	97.2	60.0
20°	176.3	176.3	173.9	171.5	165.5	159.5	149.9	141.5	131.9	123.5	54.0
22.5°	255.5	259.1	251.9	243.5	235.1	220.7	207.5	194.3	177.5	163.1	55.2
25°	379.0	382.6	379.0	359.9	344.3	325.1	299.9	273.5	244.7	218.3	62.4
27.5°	614.1	616.5	610.5	563.8	538.6	488.2	443.8	400.6	352.7	304.7	68.4
30°	1083.2	1084.4	1046.0	952.4	869.6	759.3	665.7	575.8	500.2	423.4	73.2
31°	1426.2	1392.6	1311.1	1198.3	1066.4	917.6	789.3	672.9	560.2	477.4	74.4
32°	1811.3	1806.5	1670.9	1475.4	1299.1	1113.1	920.0	771.3	641.7	529.0	75.6
33°	2321.0	2323.4	2109.9	1879.6	1590.5	1341.0	1088.0	884.0	728.1	590.2	78.0
34°	3117.5	2930.4	2679.7	2367.8	1974.4	1598.9	1270.3	1014.8	806.1	648.9	78.0
35°	3944.0	3755.6	3479.8	3007.2	2467.4	1942.0	1487.4	1155.1	899.6	712.5	78.0
36°	4870.0	4710.5	4293.0	3689.7	3001.2	2265.9	1717.7	1317.1	992.0	770.1	76.8
37°	5870.4	5636.5	5173.5	4514.9	3593.7	2721.7	1998.4	1477.8	1084.4	832.5	74.4
38°	6886.4	6675.2	6091.1	5293.4	4301.4	3202.7	2279.1	1632.5	1169.5	879.2	70.8
39°	7656.4	7541.3	6961.9	6070.7	4866.4	3658.5	2568.1	1798.1	1259.5	926.0	67.2
40°	8560.9	8374.9	7825.6	6723.2	5534.5	4122.7	2851.2	1944.4	1333.8	963.2	63.6
41°	9386.1	9151.0	8457.7	7392.5	6069.5	4540.1	3119.9	2095.5	1393.8	984.8	61.2
42°	10093.8	9820.3	9095.8	7965.9	6516.9	4873.6	3334.6	2203.5	1450.2	1002.8	57.6
43°	10552.0	10315.7	9603.2	8396.5	6899.5	5179.5	3534.9	2316.2	1485.0	1014.8	52.8
44°	10775.1	10536.4	9846.7	8666.4	7134.7	5363.0	3664.5	2394.2	1523.4	1030.4	49.2
45°	10703.2	10460.9	9794.0	8671.2	7207.8	5429.0	3719.7	2429.0	1543.8	1044.8	44.4
46°	10373.3	10203.0	9531.3	8445.7	7068.7	5358.2	3688.5	2402.6	1536.6	1044.8	39.6
47°	9910.3	9716.0	9076.6	8058.3	6731.6	5175.9	3562.5	2322.2	1492.2	1020.8	34.8
48°	9279.4	9113.8	8442.1	7442.9	6214.6	4778.8	3278.2	2191.5	1422.6	974.0	30.0
49°	8487.7	8257.4	7632.4	6656.0	5540.5	4215.1	2905.2	1970.8	1311.1	908.0	26.4
50°	7628.8	7344.6	6862.4	5868.0	4843.6	3614.1	2414.6	1666.1	1153.9	821.7	24.0
51°	6788.0	6498.9	6039.5	5193.9	4099.9	2998.8	1948.0	1330.3	950.0	702.9	20.4
52°	5916.0	5673.7	5159.1	4494.5	3509.7	2430.2	1622.9	1125.1	789.3	590.2	16.8
53°	5047.5	4882.0	4392.6	3719.7	2820.0	1985.2	1325.5	963.2	688.5	505.0	13.2
54°	4177.9	3996.7	3624.9	3025.1	2273.1	1566.6	1123.9	806.1	597.4	440.2	12.0
55°	3267.4	3173.9	2830.8	2306.6	1722.5	1249.9	911.6	693.3	500.2	368.2	9.6
56°	2516.6	2411.0	2097.9	1673.3	1279.9	978.8	737.7	566.2	423.4	308.3	7.2
57°	1648.1	1540.2	1332.6	1168.3	932.0	713.7	563.8	446.2	344.3	255.5	6.0
58°	974.0	875.6	843.3	719.7	621.3	484.6	416.2	332.3	254.3	201.5	3.6
59°	447.4	454.6	404.2	379.0	344.3	308.3	253.1	221.9	173.9	145.1	2.4
60°	260.3	245.9	239.9	214.7	190.7	169.1	152.3	134.3	109.2	93.6	1.2
62.5°	88.8	85.2	87.6	79.2	74.4	72.0	66.0	56.4	46.8	38.4	0.0
65°	24.0	24.0	22.8	21.6	20.4	19.2	18.0	15.6	14.4	12.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	8.4	8.4	7.2	7.2	6.0	6.0	4.8	4.8	3.6	3.6	0.0
70°	4.8	4.8	4.8	3.6	3.6	3.6	2.4	2.4	2.4	1.2	0.0
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	1.2	1.2
75°	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.2
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.2	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	106.8	106.8	106.8	106.8	106.8	106.8
2.5°	110.4	105.6	99.6	96.0	94.8	93.6
5°	105.6	96.0	88.8	84.0	82.8	82.8
7.5°	94.8	84.0	76.8	74.4	73.2	73.2
10°	82.8	73.2	67.2	64.8	66.0	66.0
12.5°	69.6	61.2	58.8	58.8	60.0	61.2
15°	56.4	51.6	51.6	52.8	55.2	56.4
17.5°	46.8	44.4	45.6	48.0	50.4	52.8
20°	38.4	38.4	40.8	44.4	48.0	50.4
22.5°	32.4	33.6	37.2	40.8	45.6	48.0
25°	27.6	30.0	33.6	39.6	44.4	45.6
27.5°	24.0	27.6	32.4	38.4	43.2	45.6
30°	20.4	25.2	31.2	37.2	43.2	45.6
31°	19.2	24.0	30.0	37.2	43.2	45.6
32°	18.0	24.0	30.0	37.2	43.2	45.6
33°	16.8	22.8	30.0	36.0	43.2	45.6
34°	15.6	22.8	30.0	37.2	43.2	45.6
35°	14.4	21.6	28.8	36.0	42.0	45.6
36°	13.2	21.6	28.8	36.0	43.2	45.6
37°	12.0	21.6	28.8	36.0	42.0	45.6
38°	12.0	20.4	27.6	36.0	42.0	45.6
39°	10.8	19.2	27.6	36.0	42.0	45.6
40°	9.6	19.2	26.4	34.8	42.0	45.6
41°	8.4	18.0	26.4	34.8	42.0	45.6
42°	7.2	18.0	26.4	34.8	42.0	45.6
43°	6.0	16.8	25.2	34.8	42.0	45.6
44°	6.0	16.8	25.2	34.8	42.0	45.6
45°	4.8	15.6	24.0	34.8	42.0	45.6
46°	4.8	15.6	24.0	33.6	42.0	45.6
47°	3.6	15.6	24.0	33.6	42.0	45.6
48°	3.6	14.4	24.0	33.6	42.0	45.6
49°	2.4	14.4	24.0	33.6	42.0	45.6
50°	2.4	14.4	22.8	33.6	42.0	45.6
51°	2.4	14.4	22.8	33.6	42.0	45.6
52°	2.4	13.2	22.8	33.6	42.0	45.6
53°	2.4	13.2	22.8	33.6	42.0	45.6
54°	2.4	13.2	21.6	33.6	42.0	45.6
55°	2.4	12.0	21.6	32.4	42.0	44.4
56°	2.4	12.0	21.6	32.4	42.0	44.4
57°	2.4	12.0	20.4	32.4	42.0	44.4
58°	2.4	10.8	20.4	31.2	40.8	44.4
59°	2.4	10.8	19.2	31.2	40.8	43.2
60°	2.4	9.6	19.2	30.0	39.6	43.2
62.5°	2.4	8.4	16.8	28.8	38.4	40.8
65°	2.4	7.2	15.6	26.4	37.2	39.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.4	7.2	14.4	25.2	34.8	38.4
70°	2.4	7.2	13.2	22.8	33.6	34.8
72.5°	3.6	7.2	12.0	21.6	31.2	32.4
75°	4.8	7.2	10.8	19.2	28.8	30.0
77.5°	4.8	7.2	9.6	16.8	25.2	26.4
80°	4.8	6.0	8.4	13.2	20.4	21.6
82.5°	4.8	6.0	6.0	10.8	15.6	16.8
85°	3.6	4.8	4.8	6.0	10.8	12.0
87.5°	3.6	4.8	2.4	3.6	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)