

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: P1320363

Luminaire Tested: LDSQA3D20R209840D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R209840D010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

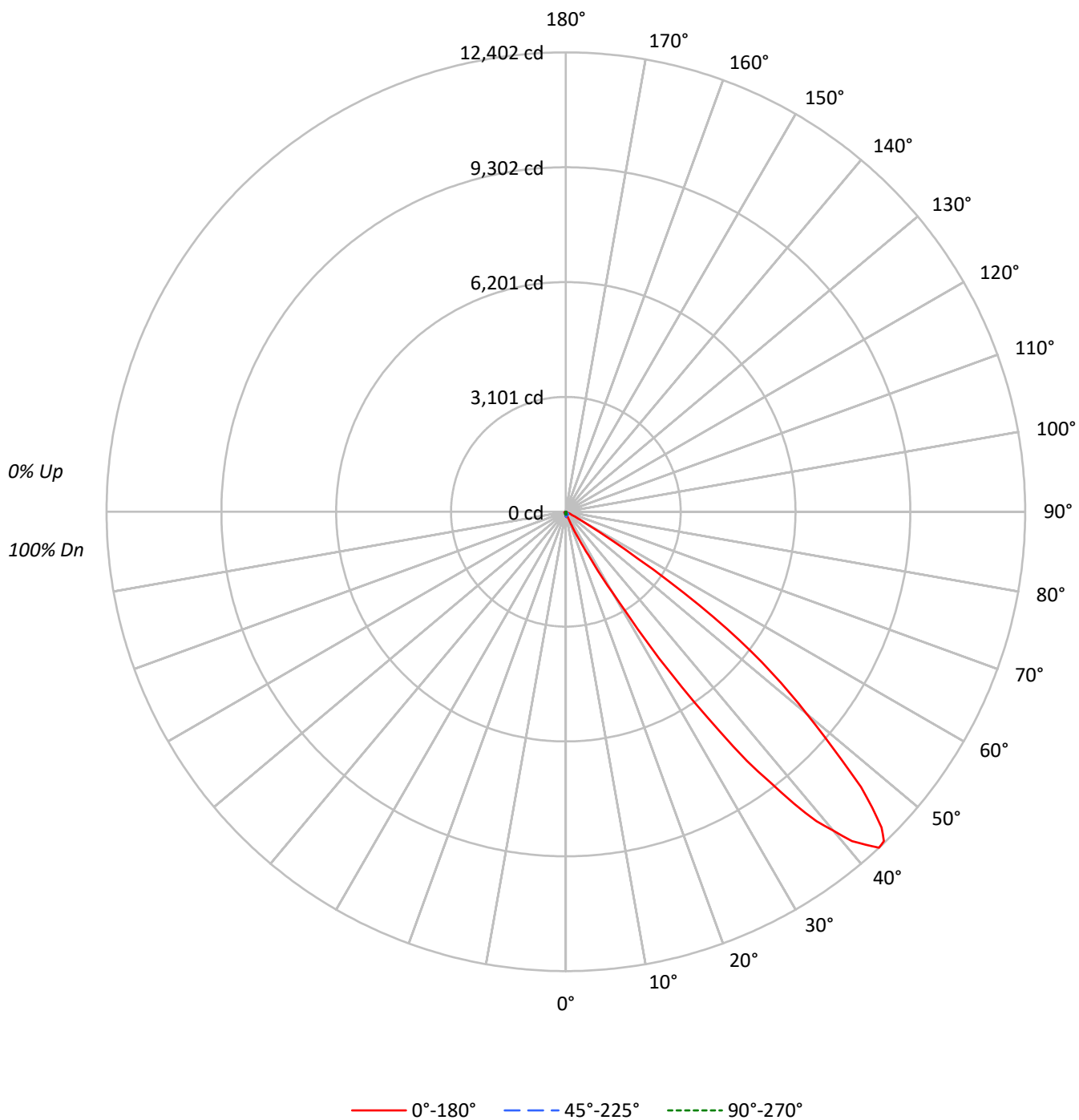
Lumens per Lamp: N/A
Luminaire Lumens: 1723.0 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	108	104	101	97	100	97	94	96	94	92	92	91	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31
8	57	42	33	27	55	42	33	27	40	33	27	39	32	27	38	31	27
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23
10	48	34	25	20	47	33	25	20	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20632	20632	20632	20632	20632
5°	24082	22388	19311	16804	16233
10°	23784	20391	15284	13029	12749
15°	20790	15583	11251	10395	10965
20°	30864	13049	8302	8907	9787
25°	132924	13530	6461	8000	9539
30°	502653	16426	5469	7736	9347
35°	1523772	19742	5109	7821	9882
40°	2526760	19649	4362	8363	10567
45°	2936915	13420	3946	8671	11447
50°	2279824	7368	3912	9110	13021
55°	1319527	4864	3903	10209	14112
60°	223097	1102	3341	10609	15603
65°	17156	0	3953	11859	17808
70°	2467	0	4884	13042	20394
75°	2129	1065	5390	15105	23689
80°	1587	1587	8034	16067	27274
85°	3162	3162	12844	16006	28850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2936915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.6
10°-20°	21.6	1.3
20°-30°	68.8	4.0
30°-40°	439.4	25.5
40°-50°	804.2	46.7
50°-60°	330.4	19.2
60°-70°	27.9	1.6
70°-80°	13.9	0.8
80°-90°	6.5	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°	100.7	5.8
0°-40°	540.0	31.3
0°-60°	1674.7	97.2
0°-90°	1723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1723.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	120	120	120	120	120	
5°	139	130	112	97	94	13
15°	117	87	63	58	62	37
25°	700	71	34	42	50	460
35°	7248	94	24	37	47	4587
45°	12058	55	16	36	47	8658
55°	4395	16	13	34	47	3841
65°	42	0	10	29	44	137
75°	3	2	8	23	36	4
85°	2	2	6	8	15	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°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8
2.5°	131.2	131.2	131.2	129.5	129.5	131.2	129.5	129.5	129.5	129.5	127.9
5°	139.3	139.3	139.3	139.3	139.3	139.3	139.3	137.6	137.6	136.0	129.5
7.5°	142.5	142.5	142.5	142.5	140.9	140.9	140.9	140.9	139.3	137.6	126.3
10°	136.0	136.0	136.0	134.4	134.4	134.4	132.8	132.8	131.2	129.5	116.6
12.5°	123.1	123.1	123.1	123.1	121.4	121.4	119.8	119.8	118.2	116.6	102.0
15°	116.6	116.6	116.6	115.0	115.0	113.3	111.7	110.1	108.5	105.2	87.4
17.5°	126.3	126.3	124.7	124.7	121.4	118.2	116.6	111.7	108.5	103.6	77.7
20°	168.4	170.0	163.5	158.7	155.4	145.7	140.9	132.8	126.3	118.2	71.2
22.5°	340.0	333.6	322.2	304.4	283.4	265.6	233.2	207.3	189.4	165.2	69.6
25°	699.5	693.0	662.3	636.4	571.6	521.4	451.8	395.1	336.8	280.1	71.2
27.5°	1329.4	1285.7	1277.6	1159.4	1068.7	939.1	804.8	691.4	587.8	472.8	76.1
30°	2527.6	2477.4	2300.9	2122.8	1878.3	1601.4	1337.5	1091.4	885.7	699.5	82.6
31°	3207.7	3256.2	3049.0	2691.1	2330.1	1975.4	1614.4	1301.8	1036.3	804.8	85.8
32°	4216.4	4004.3	3785.7	3418.2	2893.5	2440.2	1986.8	1536.6	1186.9	918.1	89.1
33°	5170.2	5045.5	4711.9	4253.7	3623.8	2987.5	2399.7	1813.5	1371.5	1055.7	90.7
34°	6187.0	6049.4	5779.0	5121.6	4430.2	3596.3	2812.6	2132.5	1591.7	1190.1	92.3
35°	7247.6	7189.3	6667.9	6098.0	5247.9	4242.3	3309.7	2482.3	1807.0	1313.2	93.9
36°	8314.7	8126.8	7718.8	6886.5	5999.2	4839.8	3831.1	2807.7	2025.6	1458.9	93.9
37°	9117.8	9075.7	8534.9	7723.7	6680.9	5477.8	4281.2	3168.8	2245.9	1583.6	93.9
38°	10003.5	9836.7	9287.8	8462.0	7322.1	6062.3	4752.4	3482.9	2454.7	1696.9	92.3
39°	10750.0	10502.2	9948.5	9132.4	7882.3	6506.0	5126.4	3787.3	2639.3	1790.9	90.7
40°	11239.0	11067.3	10489.3	9571.2	8390.8	6925.4	5505.3	4038.3	2777.0	1862.1	87.4
41°	11778.2	11493.2	10921.6	9998.7	8760.0	7294.6	5743.4	4203.5	2883.8	1909.1	84.2
42°	12100.4	11867.2	11188.8	10285.3	9023.9	7505.1	5937.7	4329.8	2948.6	1933.3	77.7
43°	12401.6	12084.2	11423.6	10452.0	9198.8	7654.0	6026.7	4388.1	2963.2	1933.3	69.6
44°	12361.1	12059.9	11375.0	10474.7	9237.6	7697.8	6064.0	4389.7	2940.5	1909.1	61.5
45°	12058.3	11758.7	11141.8	10277.2	9098.4	7611.9	5989.5	4324.9	2877.3	1867.0	55.1
46°	11502.9	11205.0	10732.2	9946.8	8839.3	7417.6	5816.2	4184.1	2772.1	1798.9	48.6
47°	10898.9	10609.1	10125.0	9414.1	8397.3	7071.1	5565.2	3986.5	2624.7	1700.2	43.7
48°	10022.9	9841.6	9355.8	8748.6	7783.6	6528.7	5124.8	3664.3	2427.2	1572.3	37.2
49°	9249.0	9057.9	8632.0	7979.5	6983.7	5897.2	4598.6	3272.4	2169.7	1429.8	32.4
50°	8509.0	8342.2	7948.7	7212.0	6261.5	5134.5	3887.7	2778.6	1845.9	1253.3	27.5
51°	7785.2	7660.5	7258.9	6582.1	5617.1	4548.4	3368.0	2313.9	1525.3	1039.5	25.9
52°	7058.2	7043.6	6608.0	5923.1	4990.4	3963.8	2862.8	1952.8	1293.8	872.8	24.3
53°	6276.1	6182.2	5801.6	5186.3	4290.9	3355.0	2427.2	1646.7	1114.0	743.2	21.0
54°	5385.5	5280.3	4872.2	4316.8	3505.6	2747.8	1956.0	1331.0	927.8	628.3	19.4
55°	4394.6	4214.8	3918.5	3348.5	2738.1	2096.9	1510.7	1054.1	741.6	523.0	16.2
56°	3334.0	3154.2	2987.5	2568.1	2009.4	1564.2	1125.4	808.0	579.7	412.9	14.6
57°	2318.7	2309.0	2035.4	1713.1	1343.9	1065.4	770.7	570.0	409.7	320.6	11.3
58°	1504.3	1454.1	1279.2	1093.0	879.2	665.5	495.5	387.0	278.5	218.6	9.7
59°	1054.1	953.7	859.8	728.6	553.8	419.4	319.0	247.7	192.7	152.2	6.5
60°	647.7	626.6	563.5	443.7	359.5	296.3	238.0	183.0	140.9	108.5	3.2
62.5°	184.6	187.8	170.0	150.6	129.5	111.7	100.4	85.8	71.2	56.7	0.0
65°	42.1	40.5	43.7	40.5	37.2	37.2	32.4	29.1	25.9	24.3	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°	13.0	13.0	11.3	11.3	11.3	9.7	9.7	8.1	8.1	6.5	0.0
70°	4.9	4.9	4.9	4.9	4.9	3.2	3.2	3.2	1.6	1.6	0.0
72.5°	4.9	4.9	4.9	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6
77.5°	3.2	3.2	3.2	3.2	3.2	1.6	3.2	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	1.6	0.0	0.0	1.6	1.6	1.6	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	119.8	119.8	119.8	119.8	119.8	119.8
2.5°	124.7	118.2	113.3	108.5	106.9	106.9
5°	121.4	111.7	102.0	97.2	93.9	93.9
7.5°	111.7	100.4	90.7	85.8	84.2	84.2
10°	100.4	87.4	77.7	74.5	74.5	72.9
12.5°	87.4	74.5	68.0	66.4	66.4	66.4
15°	72.9	63.1	58.3	58.3	59.9	61.5
17.5°	61.5	51.8	50.2	53.4	56.7	56.7
20°	51.8	45.3	45.3	48.6	51.8	53.4
22.5°	43.7	38.9	40.5	45.3	50.2	51.8
25°	38.9	34.0	37.2	42.1	47.0	50.2
27.5°	32.4	30.8	34.0	40.5	47.0	48.6
30°	27.5	27.5	32.4	38.9	45.3	47.0
31°	25.9	25.9	32.4	38.9	45.3	47.0
32°	24.3	25.9	30.8	38.9	45.3	47.0
33°	22.7	24.3	30.8	37.2	45.3	47.0
34°	21.0	24.3	30.8	37.2	45.3	47.0
35°	19.4	24.3	30.8	37.2	45.3	47.0
36°	17.8	22.7	29.1	37.2	45.3	47.0
37°	16.2	22.7	29.1	37.2	45.3	47.0
38°	14.6	21.0	29.1	37.2	45.3	47.0
39°	14.6	21.0	27.5	37.2	43.7	47.0
40°	13.0	19.4	27.5	37.2	43.7	47.0
41°	11.3	19.4	27.5	35.6	43.7	47.0
42°	9.7	17.8	25.9	35.6	43.7	47.0
43°	8.1	17.8	25.9	35.6	43.7	47.0
44°	8.1	16.2	25.9	35.6	43.7	47.0
45°	6.5	16.2	25.9	35.6	43.7	47.0
46°	4.9	16.2	25.9	35.6	43.7	47.0
47°	4.9	14.6	24.3	35.6	43.7	47.0
48°	3.2	14.6	24.3	35.6	43.7	47.0
49°	3.2	14.6	24.3	35.6	43.7	48.6
50°	3.2	14.6	24.3	34.0	43.7	48.6
51°	1.6	14.6	24.3	34.0	43.7	48.6
52°	1.6	14.6	22.7	34.0	45.3	48.6
53°	1.6	13.0	22.7	34.0	45.3	48.6
54°	1.6	13.0	22.7	34.0	45.3	47.0
55°	1.6	13.0	22.7	34.0	43.7	47.0
56°	1.6	11.3	22.7	34.0	43.7	47.0
57°	1.6	11.3	21.0	32.4	43.7	45.3
58°	1.6	11.3	21.0	32.4	43.7	45.3
59°	1.6	11.3	21.0	32.4	42.1	45.3
60°	3.2	9.7	19.4	30.8	42.1	45.3
62.5°	3.2	9.7	19.4	30.8	40.5	43.7
65°	3.2	9.7	17.8	29.1	40.5	43.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.2	8.1	16.2	27.5	38.9	42.1
70°	3.2	9.7	16.2	25.9	37.2	40.5
72.5°	4.9	8.1	14.6	24.3	35.6	38.9
75°	4.9	8.1	14.6	22.7	34.0	35.6
77.5°	6.5	8.1	13.0	19.4	30.8	32.4
80°	6.5	8.1	11.3	16.2	25.9	27.5
82.5°	6.5	8.1	8.1	13.0	19.4	21.0
85°	4.9	6.5	6.5	8.1	13.0	14.6
87.5°	4.9	6.5	4.9	3.2	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)