

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: P1319538

Luminaire Tested: LDSQA3D20R359835D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319538
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: LDSQA3D20R359835D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

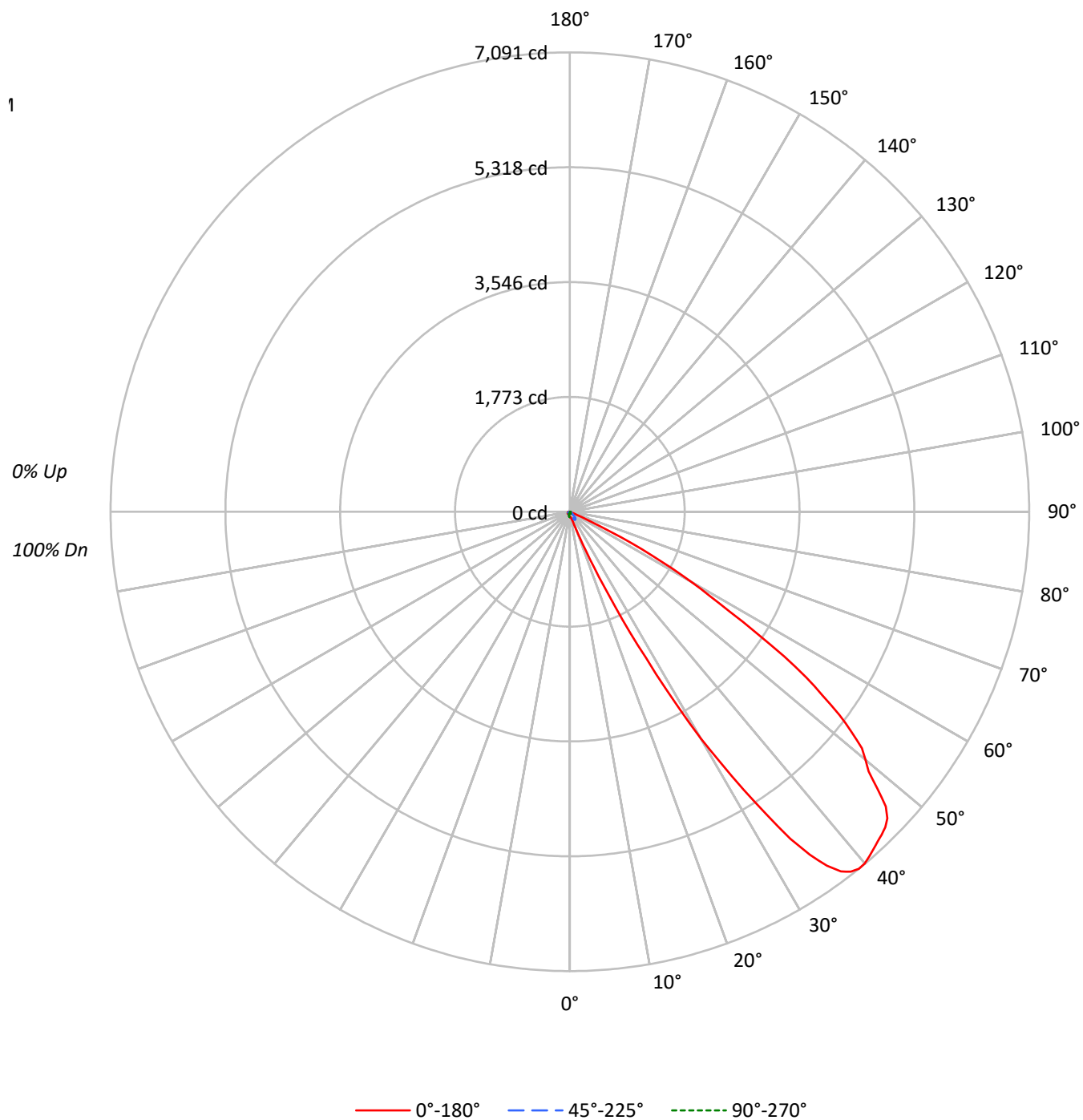
Lumens per Lamp: N/A
Luminaire Lumens: 1766.0 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			0
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	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14002	14002	14002	14002	14002
5°	15162	14885	13779	12396	12119
10°	15897	14498	12259	10598	10598
15°	22733	14210	9949	9093	9378
20°	56980	15194	7881	7881	8761
25°	264460	19383	6062	7278	8171
30°	803994	26310	4753	6662	8233
35°	1358793	30507	4016	6370	8052
40°	1592765	30103	3215	6452	8611
45°	1677371	21360	2728	6990	9328
50°	1596627	12807	2572	7261	10262
55°	1337903	5255	2883	8137	11980
60°	748996	1102	3307	9334	13192
65°	129263	652	3260	10392	14956
70°	2417	806	4028	11229	16869
75°	2129	1065	5323	12709	19097
80°	1587	1587	6347	14183	22117
85°	0	3162	12647	15808	25293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1689257 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.4
10°-20°	20.8	1.2
20°-30°	108.4	6.1
30°-40°	468.0	26.5
40°-50°	667.5	37.8
50°-60°	413.4	23.4
60°-70°	62.9	3.6
70°-80°	11.8	0.7
80°-90°	5.9	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°	136.5	7.7
0°-40°	604.5	34.2
0°-60°	1685.4	95.4
0°-90°	1766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	81	81	81	81	81	
5°	88	86	80	72	70	8
15°	128	80	56	51	53	46
25°	1392	102	32	38	43	833
35°	6463	145	19	30	38	3880
45°	6887	88	11	29	38	5203
55°	4456	18	10	27	40	3795
65°	317	2	8	26	37	648
75°	3	2	8	19	29	3
85°	0	2	6	8	13	1
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°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2.5°	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	81.3	79.7
5°	87.7	87.7	86.1	86.1	86.1	86.1	86.1	86.1	82.9	79.7	74.9
7.5°	89.3	89.3	87.7	87.7	87.7	87.7	86.1	84.5	81.3	74.9	70.1
10°	90.9	90.9	90.9	90.9	89.3	87.7	86.1	82.9	78.1	70.1	65.4
12.5°	102.0	102.0	100.4	97.2	94.1	90.9	87.7	81.3	71.7	63.8	59.0
15°	127.5	125.9	122.8	118.0	111.6	103.6	97.2	79.7	65.4	55.8	52.6
17.5°	178.5	175.4	170.6	154.6	140.3	125.9	113.2	79.7	59.0	49.4	46.2
20°	310.9	312.5	279.0	240.7	208.8	173.8	141.9	82.9	52.6	43.0	41.4
22.5°	648.8	623.3	543.6	451.2	344.3	266.2	200.9	90.9	46.2	36.7	36.7
25°	1391.7	1294.5	1101.6	832.2	586.7	416.1	291.7	102.0	41.4	31.9	33.5
27.5°	2541.1	2453.5	2066.1	1555.9	1033.0	628.1	395.4	116.4	36.7	27.1	30.3
30°	4042.9	3800.6	3295.2	2550.7	1726.5	961.3	530.9	132.3	30.3	23.9	28.7
31°	4511.6	4400.0	3784.6	2950.9	2023.0	1141.4	588.3	137.1	28.7	23.9	27.1
32°	5067.9	4870.3	4318.7	3389.3	2324.3	1302.5	656.8	141.9	27.1	20.7	27.1
33°	5565.3	5374.0	4702.9	3775.0	2628.8	1485.8	730.1	143.5	23.9	20.7	25.5
34°	6088.2	5826.8	5162.0	4178.4	2941.3	1683.5	797.1	145.1	22.3	19.1	25.5
35°	6462.9	6201.4	5557.4	4497.2	3210.7	1858.8	873.6	145.1	20.7	19.1	23.9
36°	6753.0	6523.4	5898.5	4825.6	3478.5	2016.7	934.2	145.1	17.5	17.5	23.9
37°	6952.3	6733.9	6128.1	5107.8	3682.6	2156.9	988.4	145.1	15.9	17.5	23.9
38°	7049.5	6867.8	6349.7	5313.4	3880.3	2266.9	1031.4	141.9	14.3	15.9	22.3
39°	7091.0	6942.7	6485.2	5487.2	4028.5	2362.6	1063.3	138.7	12.8	15.9	22.3
40°	7084.6	6955.5	6561.7	5606.8	4148.1	2428.0	1080.9	133.9	11.2	14.3	22.3
41°	7047.9	6936.3	6601.6	5708.8	4219.8	2472.6	1085.6	129.1	9.6	14.3	20.7
42°	7006.5	6904.5	6614.3	5763.0	4266.1	2486.9	1072.9	122.8	9.6	12.8	20.7
43°	6963.4	6869.4	6614.3	5780.5	4277.2	2477.4	1052.2	111.6	8.0	12.8	20.7
44°	6928.4	6839.1	6593.6	5775.8	4253.3	2440.7	1013.9	98.8	6.4	12.8	20.7
45°	6886.9	6799.2	6566.5	5745.5	4207.1	2378.5	966.1	87.7	4.8	11.2	20.7
46°	6813.6	6745.0	6518.7	5683.3	4133.7	2292.4	905.5	79.7	3.2	11.2	19.1
47°	6671.7	6612.7	6426.2	5590.8	4036.5	2190.4	843.3	71.7	3.2	11.2	19.1
48°	6386.3	6384.7	6241.3	5418.7	3881.9	2062.9	778.0	63.8	3.2	11.2	19.1
49°	6110.5	6081.8	5903.3	5115.8	3660.3	1909.8	709.4	57.4	1.6	11.2	19.1
50°	5959.1	5896.9	5603.6	4758.7	3376.5	1697.8	636.1	47.8	1.6	9.6	19.1
51°	5801.3	5712.0	5366.1	4436.6	3038.5	1493.8	556.4	38.3	1.6	9.6	17.5
52°	5515.9	5431.4	5044.0	4129.0	2710.1	1284.9	479.9	31.9	1.6	9.6	19.1
53°	5208.2	5087.1	4666.2	3791.0	2421.6	1100.0	401.7	27.1	1.6	9.6	17.5
54°	4820.8	4766.6	4283.6	3376.5	2083.6	921.4	330.0	22.3	1.6	9.6	17.5
55°	4455.8	4376.1	3873.9	2952.4	1777.5	755.6	275.8	17.5	1.6	9.6	17.5
56°	3990.3	3870.7	3400.4	2563.5	1466.7	609.0	232.8	14.3	1.6	9.6	17.5
57°	3435.5	3308.0	2936.5	2131.4	1151.0	463.9	194.5	11.2	1.6	9.6	17.5
58°	2906.2	2796.2	2397.7	1645.2	867.2	322.0	161.0	8.0	1.6	8.0	17.5
59°	2510.9	2389.7	1994.3	1265.8	602.6	237.5	121.2	6.4	1.6	9.6	17.5
60°	2174.5	2018.2	1605.4	980.4	430.4	170.6	89.3	3.2	3.2	9.6	17.5
62.5°	1253.0	1106.4	766.8	398.5	177.0	87.7	43.0	1.6	3.2	9.6	17.5
65°	317.2	282.2	183.3	86.1	49.4	30.3	15.9	1.6	3.2	8.0	15.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	11.2	11.2	11.2	9.6	8.0	6.4	3.2	1.6	3.2	8.0	15.9
70°	4.8	4.8	4.8	3.2	3.2	1.6	1.6	1.6	3.2	8.0	14.3
72.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.8	8.0	12.8
75°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.8	8.0	12.8
77.5°	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	4.8	6.4	11.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.8	6.4	9.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.8	6.4	8.0
85°	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	4.8	6.4	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.4	4.8
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°	81.3	81.3	81.3
2.5°	76.5	76.5	76.5
5°	71.7	71.7	70.1
7.5°	67.0	65.4	65.4
10°	60.6	60.6	60.6
12.5°	55.8	55.8	55.8
15°	51.0	52.6	52.6
17.5°	46.2	49.4	49.4
20°	43.0	46.2	47.8
22.5°	39.9	43.0	44.6
25°	38.3	41.4	43.0
27.5°	35.1	39.9	43.0
30°	33.5	38.3	41.4
31°	33.5	38.3	39.9
32°	31.9	38.3	39.9
33°	31.9	38.3	39.9
34°	31.9	36.7	39.9
35°	30.3	36.7	38.3
36°	30.3	36.7	38.3
37°	30.3	36.7	39.9
38°	30.3	36.7	38.3
39°	28.7	36.7	38.3
40°	28.7	36.7	38.3
41°	28.7	36.7	38.3
42°	28.7	36.7	38.3
43°	28.7	36.7	38.3
44°	28.7	35.1	38.3
45°	28.7	35.1	38.3
46°	28.7	36.7	38.3
47°	28.7	36.7	39.9
48°	28.7	35.1	38.3
49°	27.1	35.1	38.3
50°	27.1	35.1	38.3
51°	27.1	36.7	39.9
52°	27.1	36.7	39.9
53°	27.1	36.7	39.9
54°	27.1	36.7	38.3
55°	27.1	36.7	39.9
56°	27.1	36.7	38.3
57°	27.1	36.7	38.3
58°	27.1	35.1	38.3
59°	27.1	35.1	38.3
60°	27.1	35.1	38.3
62.5°	25.5	35.1	38.3
65°	25.5	33.5	36.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	23.9	33.5	35.1
70°	22.3	31.9	33.5
72.5°	20.7	30.3	31.9
75°	19.1	27.1	28.7
77.5°	15.9	23.9	27.1
80°	14.3	20.7	22.3
82.5°	11.2	17.5	19.1
85°	8.0	12.8	12.8
87.5°	3.2	6.4	6.4
90°	0.0	0.0	0.0

(END OF REPORT)