

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: P1323997

Luminaire Tested: LDSQA3D17R159030D2WDE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323997
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: LDSQA3D17R159030D2WDE010 3LSQCA45R 1MB
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

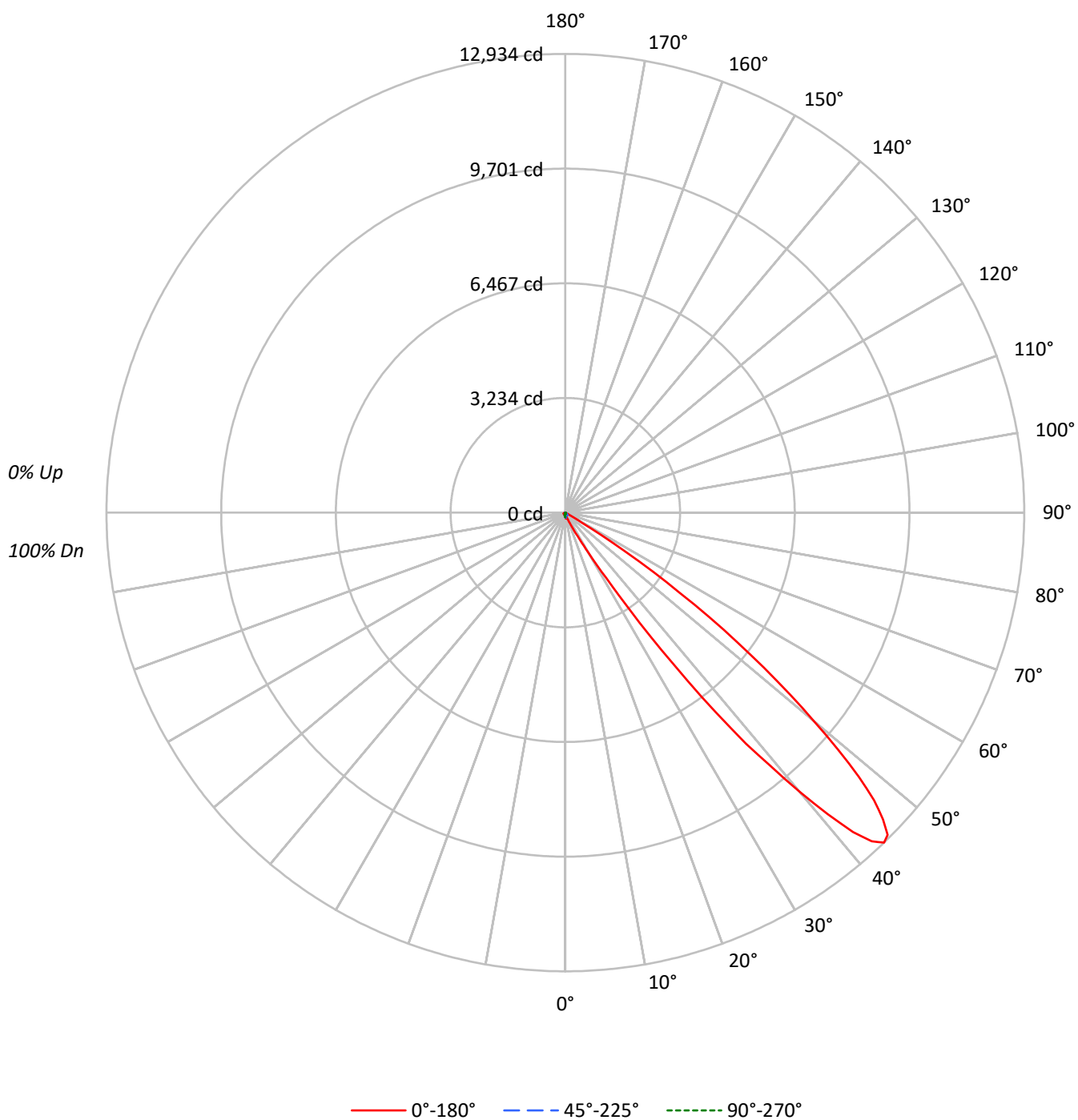
Lumens per Lamp: N/A
Luminaire Lumens: 1444.0 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.3
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	0			
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	101	93	87	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	53	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	37	49	42	37	48	42	37	35			
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29			
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24			
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20			
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22062	22062	22062	22062	22062
5°	27384	24393	19916	17426	17167
10°	26949	20898	15354	13588	13850
15°	22341	14888	11037	11304	12071
20°	38799	11876	8449	9769	11088
25°	86462	14233	6841	9026	10394
30°	258545	17460	6006	8869	10878
35°	995321	19679	5445	9083	11500
40°	2310235	17154	5171	9398	12298
45°	3129108	12982	4555	10181	13323
50°	2453497	7716	4635	10798	14656
55°	1177624	3453	4324	11680	16004
60°	107605	482	3961	12400	17842
65°	11736	0	3505	12918	19357
70°	2921	0	4330	13797	21048
75°	2861	932	5723	15305	23955
80°	2876	2876	7141	15670	25687
85°	2766	2766	11461	14227	28455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3129108 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.8
10°-20°	22.8	1.6
20°-30°	54.6	3.8
30°-40°	298.7	20.7
40°-50°	723.3	50.1
50°-60°	288.6	20.0
60°-70°	24.9	1.7
70°-80°	14.1	1.0
80°-90°	6.2	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°	88.3	6.1
0°-40°	387.0	26.8
0°-60°	1398.8	96.9
0°-90°	1444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1444.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	128	128	128	128	128	
5°	158	141	115	101	99	15
15°	125	84	62	63	68	44
25°	455	75	36	48	55	274
35°	4734	94	26	43	55	3345
45°	12847	53	19	42	55	9063
55°	3922	12	14	39	53	3654
65°	29	0	9	32	48	74
75°	4	1	9	23	36	4
85°	1	1	6	7	14	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°	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1
2.5°	144.0	144.0	145.4	144.0	144.0	144.0	144.0	142.5	142.5	142.5	138.2
5°	158.4	158.4	158.4	158.4	156.9	156.9	156.9	155.5	155.5	154.1	141.1
7.5°	164.1	164.1	162.7	162.7	161.3	161.3	159.8	158.4	156.9	155.5	135.3
10°	154.1	154.1	154.1	152.6	152.6	151.2	149.7	148.3	146.9	144.0	119.5
12.5°	136.8	136.8	138.2	136.8	135.3	133.9	131.0	129.6	128.1	125.3	99.3
15°	125.3	125.3	125.3	123.8	122.4	119.5	118.1	115.2	113.7	109.4	83.5
17.5°	159.8	159.8	158.4	155.5	149.7	145.4	138.2	132.5	125.3	116.6	72.0
20°	211.7	211.7	208.8	205.9	198.7	191.5	180.0	169.9	158.4	148.3	64.8
22.5°	306.7	311.0	302.4	292.3	282.2	264.9	249.1	233.2	213.1	195.8	66.2
25°	455.0	459.3	455.0	431.9	413.2	390.2	360.0	328.3	293.7	262.0	74.9
27.5°	737.2	740.1	732.9	676.7	646.5	586.0	532.7	480.9	423.3	365.7	82.1
30°	1300.1	1301.6	1255.5	1143.2	1043.9	911.4	799.1	691.1	600.4	508.3	87.8
31°	1711.9	1671.6	1573.7	1438.4	1280.0	1101.4	947.4	807.7	672.4	573.0	89.3
32°	2174.1	2168.3	2005.6	1771.0	1559.3	1336.1	1104.3	925.8	770.3	635.0	90.7
33°	2786.0	2788.9	2532.6	2256.2	1909.2	1609.7	1305.9	1061.1	874.0	708.4	93.6
34°	3742.1	3517.4	3216.5	2842.2	2369.9	1919.3	1524.8	1218.1	967.5	778.9	93.6
35°	4734.1	4508.0	4176.9	3609.6	2961.7	2331.0	1785.4	1386.5	1079.9	855.2	93.6
36°	5845.6	5654.1	5153.1	4428.8	3602.4	2719.8	2061.8	1580.9	1190.7	924.4	92.1
37°	7046.4	6765.6	6209.9	5419.4	4313.7	3266.9	2398.7	1773.8	1301.6	999.2	89.3
38°	8265.9	8012.5	7311.3	6353.9	5163.1	3844.3	2735.6	1959.6	1403.8	1055.4	84.9
39°	9190.3	9052.0	8356.6	7286.8	5841.3	4391.4	3082.6	2158.3	1511.8	1111.5	80.6
40°	10275.9	10052.7	9393.3	8070.1	6643.3	4948.6	3422.4	2333.9	1601.1	1156.2	76.3
41°	11266.5	10984.3	10152.1	8873.5	7285.4	5449.7	3744.9	2515.3	1673.1	1182.1	73.4
42°	12115.9	11787.7	10918.0	9561.7	7822.5	5849.9	4002.7	2644.9	1740.7	1203.7	69.1
43°	12666.0	12382.3	11527.1	10078.6	8281.8	6217.1	4243.1	2780.3	1782.5	1218.1	63.4
44°	12933.8	12647.2	11819.3	10402.6	8564.0	6437.4	4398.6	2873.8	1828.6	1236.8	59.0
45°	12847.4	12556.5	11756.0	10408.3	8651.8	6516.6	4464.8	2915.6	1853.0	1254.1	53.3
46°	12451.4	12247.0	11440.7	10137.7	8484.8	6431.6	4427.4	2883.9	1844.4	1254.1	47.5
47°	11895.7	11662.4	10895.0	9672.6	8080.2	6212.8	4276.2	2787.5	1791.1	1225.3	41.8
48°	11138.3	10939.6	10133.3	8934.0	7459.6	5736.2	3935.0	2630.5	1707.6	1169.1	36.0
49°	10188.1	9911.6	9161.5	7989.5	6650.5	5059.5	3487.2	2365.6	1573.7	1089.9	31.7
50°	9157.2	8815.9	8237.1	7043.5	5813.9	4338.1	2898.3	1999.9	1385.1	986.3	28.8
51°	8147.9	7800.9	7249.4	6234.4	4921.2	3599.5	2338.2	1596.7	1140.3	843.7	24.5
52°	7101.1	6810.3	6192.6	5394.9	4212.9	2917.0	1948.1	1350.5	947.4	708.4	20.2
53°	6058.7	5860.0	5272.6	4464.8	3385.0	2382.9	1591.0	1156.2	826.4	606.2	15.8
54°	5014.8	4797.4	4351.1	3631.2	2728.4	1880.4	1349.1	967.5	717.0	528.4	14.4
55°	3922.0	3809.7	3397.9	2768.7	2067.6	1500.3	1094.3	832.2	600.4	442.0	11.5
56°	3020.7	2894.0	2518.2	2008.5	1536.3	1174.9	885.5	679.6	508.3	370.0	8.6
57°	1978.3	1848.7	1599.6	1402.4	1118.7	856.7	676.7	535.6	413.2	306.7	7.2
58°	1169.1	1051.1	1012.2	863.9	745.8	581.7	499.6	398.8	305.2	241.9	4.3
59°	537.0	545.7	485.2	455.0	413.2	370.0	303.8	266.4	208.8	174.2	2.9
60°	312.4	295.2	288.0	257.7	228.9	203.0	182.9	161.3	131.0	112.3	1.4
62.5°	106.5	102.2	105.1	95.0	89.3	86.4	79.2	67.7	56.2	46.1	0.0
65°	28.8	28.8	27.4	25.9	24.5	23.0	21.6	18.7	17.3	14.4	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°	10.1	10.1	8.6	8.6	7.2	7.2	5.8	5.8	4.3	4.3	0.0
70°	5.8	5.8	5.8	4.3	4.3	4.3	2.9	2.9	2.9	1.4	0.0
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9	2.9	1.4	1.4
75°	4.3	4.3	4.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.4
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.4	2.9
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.9
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	128.1	128.1	128.1	128.1	128.1	128.1
2.5°	132.5	126.7	119.5	115.2	113.7	112.3
5°	126.7	115.2	106.5	100.8	99.3	99.3
7.5°	113.7	100.8	92.1	89.3	87.8	87.8
10°	99.3	87.8	80.6	77.7	79.2	79.2
12.5°	83.5	73.4	70.6	70.6	72.0	73.4
15°	67.7	61.9	61.9	63.4	66.2	67.7
17.5°	56.2	53.3	54.7	57.6	60.5	63.4
20°	46.1	46.1	49.0	53.3	57.6	60.5
22.5°	38.9	40.3	44.6	49.0	54.7	57.6
25°	33.1	36.0	40.3	47.5	53.3	54.7
27.5°	28.8	33.1	38.9	46.1	51.8	54.7
30°	24.5	30.2	37.4	44.6	51.8	54.7
31°	23.0	28.8	36.0	44.6	51.8	54.7
32°	21.6	28.8	36.0	44.6	51.8	54.7
33°	20.2	27.4	36.0	43.2	51.8	54.7
34°	18.7	27.4	36.0	44.6	51.8	54.7
35°	17.3	25.9	34.6	43.2	50.4	54.7
36°	15.8	25.9	34.6	43.2	51.8	54.7
37°	14.4	25.9	34.6	43.2	50.4	54.7
38°	14.4	24.5	33.1	43.2	50.4	54.7
39°	13.0	23.0	33.1	43.2	50.4	54.7
40°	11.5	23.0	31.7	41.8	50.4	54.7
41°	10.1	21.6	31.7	41.8	50.4	54.7
42°	8.6	21.6	31.7	41.8	50.4	54.7
43°	7.2	20.2	30.2	41.8	50.4	54.7
44°	7.2	20.2	30.2	41.8	50.4	54.7
45°	5.8	18.7	28.8	41.8	50.4	54.7
46°	5.8	18.7	28.8	40.3	50.4	54.7
47°	4.3	18.7	28.8	40.3	50.4	54.7
48°	4.3	17.3	28.8	40.3	50.4	54.7
49°	2.9	17.3	28.8	40.3	50.4	54.7
50°	2.9	17.3	27.4	40.3	50.4	54.7
51°	2.9	17.3	27.4	40.3	50.4	54.7
52°	2.9	15.8	27.4	40.3	50.4	54.7
53°	2.9	15.8	27.4	40.3	50.4	54.7
54°	2.9	15.8	25.9	40.3	50.4	54.7
55°	2.9	14.4	25.9	38.9	50.4	53.3
56°	2.9	14.4	25.9	38.9	50.4	53.3
57°	2.9	14.4	24.5	38.9	50.4	53.3
58°	2.9	13.0	24.5	37.4	49.0	53.3
59°	2.9	13.0	23.0	37.4	49.0	51.8
60°	2.9	11.5	23.0	36.0	47.5	51.8
62.5°	2.9	10.1	20.2	34.6	46.1	49.0
65°	2.9	8.6	18.7	31.7	44.6	47.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.9	8.6	17.3	30.2	41.8	46.1
70°	2.9	8.6	15.8	27.4	40.3	41.8
72.5°	4.3	8.6	14.4	25.9	37.4	38.9
75°	5.8	8.6	13.0	23.0	34.6	36.0
77.5°	5.8	8.6	11.5	20.2	30.2	31.7
80°	5.8	7.2	10.1	15.8	24.5	25.9
82.5°	5.8	7.2	7.2	13.0	18.7	20.2
85°	4.3	5.8	5.8	7.2	13.0	14.4
87.5°	4.3	5.8	2.9	4.3	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)