

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: P1318451

Luminaire Tested: LDSQA3D17R159830DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318451
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: LDSQA3D17R159830DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

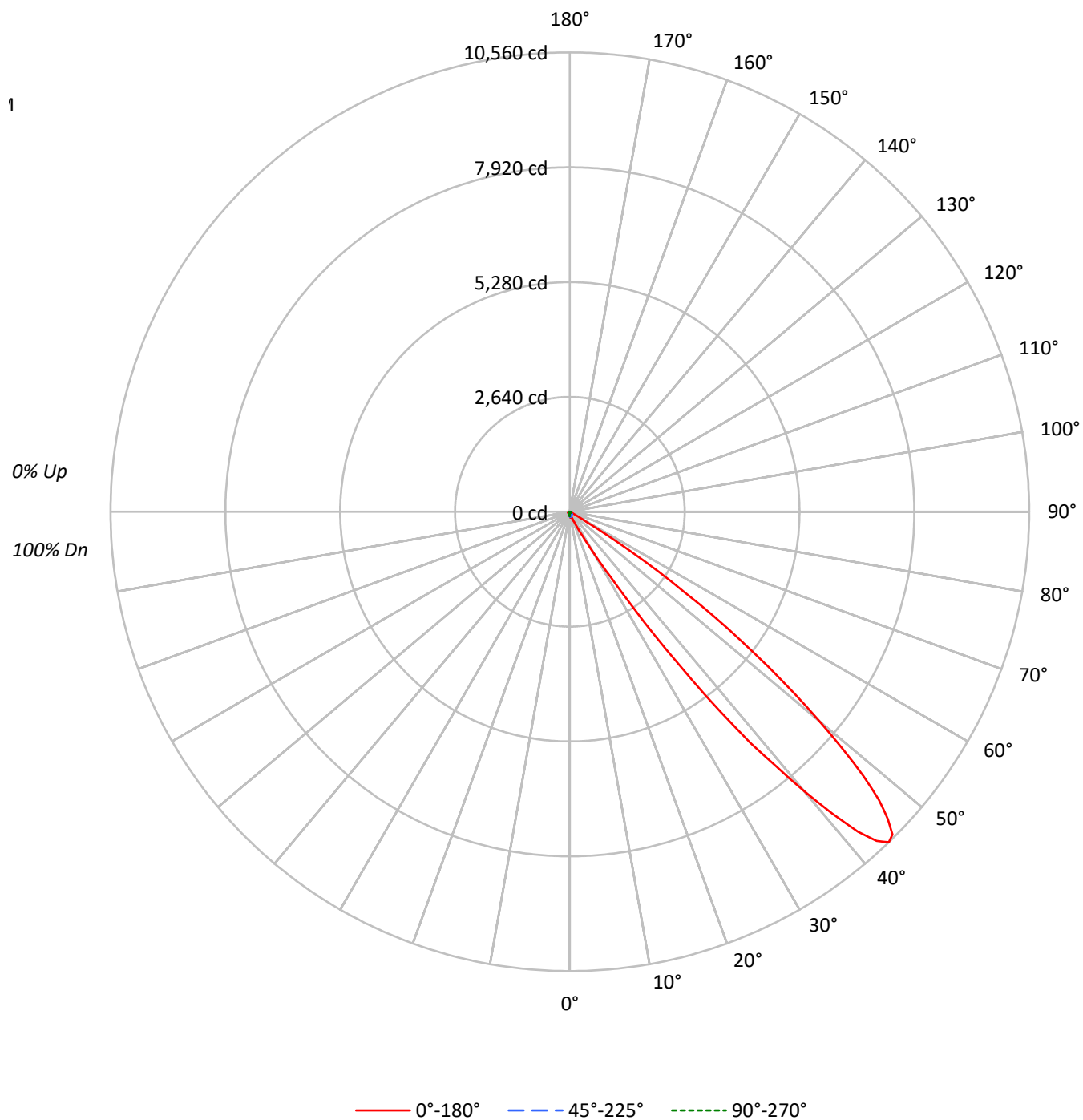
Lumens per Lamp: N/A
Luminaire Lumens: 1179.0 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	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°	18014	18014	18014	18014	18014
5°	22353	19916	16251	14228	14021
10°	22000	17068	12539	11105	11315
15°	18240	12160	9004	9218	9860
20°	31670	9695	6891	7972	9054
25°	70595	11611	5587	7373	8494
30°	211096	14259	4912	7239	8889
35°	812660	16063	4457	7422	9398
40°	1886268	14006	4227	7666	10049
45°	2554843	10595	3726	8305	10887
50°	2003239	6296	3778	8815	11977
55°	961526	2822	3543	9518	13061
60°	87868	413	3238	10127	14570
65°	9577	0	2893	10555	15812
70°	2367	0	3575	11229	17171
75°	2329	799	4724	12510	19563
80°	2380	2380	5852	12794	21026
85°	2371	2371	9287	11659	23317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2554843 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.8
10°-20°	18.6	1.6
20°-30°	44.5	3.8
30°-40°	243.9	20.7
40°-50°	590.5	50.1
50°-60°	235.6	20.0
60°-70°	20.4	1.7
70°-80°	11.5	1.0
80°-90°	5.1	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°	72.1	6.1
0°-40°	315.9	26.8
0°-60°	1142.1	96.9
0°-90°	1179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	105	105	105	105	105	
5°	129	115	94	82	81	12
15°	102	68	50	52	55	36
25°	372	61	29	39	45	224
35°	3865	76	21	35	45	2731
45°	10490	44	15	34	45	7400
55°	3202	9	12	32	44	2983
65°	24	0	7	26	39	60
75°	4	1	7	19	29	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°	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6
2.5°	117.6	117.6	118.7	117.6	117.6	117.6	117.6	116.4	116.4	116.4	112.9
5°	129.3	129.3	129.3	129.3	128.1	128.1	128.1	127.0	127.0	125.8	115.2
7.5°	134.0	134.0	132.8	132.8	131.7	131.7	130.5	129.3	128.1	127.0	110.5
10°	125.8	125.8	125.8	124.6	124.6	123.4	122.3	121.1	119.9	117.6	97.6
12.5°	111.7	111.7	112.9	111.7	110.5	109.3	107.0	105.8	104.6	102.3	81.1
15°	102.3	102.3	102.3	101.1	99.9	97.6	96.4	94.0	92.9	89.3	68.2
17.5°	130.5	130.5	129.3	127.0	122.3	118.7	112.9	108.2	102.3	95.2	58.8
20°	172.8	172.8	170.5	168.1	162.2	156.4	146.9	138.7	129.3	121.1	52.9
22.5°	250.4	253.9	246.9	238.6	230.4	216.3	203.4	190.4	174.0	159.9	54.1
25°	371.5	375.0	371.5	352.7	337.4	318.6	293.9	268.0	239.8	214.0	61.1
27.5°	601.9	604.2	598.4	552.5	527.8	478.5	435.0	392.6	345.6	298.6	67.0
30°	1061.5	1062.7	1025.1	933.4	852.3	744.1	652.4	564.3	490.2	415.0	71.7
31°	1397.8	1364.8	1284.9	1174.4	1045.1	899.3	773.5	659.5	549.0	467.9	72.9
32°	1775.1	1770.4	1637.6	1446.0	1273.1	1090.9	901.7	755.9	628.9	518.4	74.1
33°	2274.7	2277.1	2067.8	1842.1	1558.8	1314.3	1066.2	866.4	713.6	578.4	76.4
34°	3055.3	2871.9	2626.2	2320.6	1935.0	1567.0	1244.9	994.5	790.0	636.0	76.4
35°	3865.3	3680.7	3410.3	2947.2	2418.2	1903.3	1457.7	1132.1	881.7	698.3	76.4
36°	4772.8	4616.5	4207.4	3616.1	2941.3	2220.7	1683.4	1290.8	972.2	754.7	75.2
37°	5753.3	5524.0	5070.3	4424.9	3522.0	2667.4	1958.5	1448.3	1062.7	815.8	72.9
38°	6749.0	6542.1	5969.6	5187.8	4215.6	3138.8	2233.6	1600.0	1146.2	861.7	69.4
39°	7503.7	7390.8	6823.0	5949.6	4769.3	3585.5	2516.9	1762.2	1234.4	907.5	65.8
40°	8390.1	8207.9	7669.4	6589.1	5424.1	4040.4	2794.3	1905.6	1307.2	944.0	62.3
41°	9198.9	8968.5	8289.0	7245.1	5948.4	4449.5	3057.7	2053.7	1366.0	965.1	60.0
42°	9892.5	9624.4	8914.4	7807.0	6386.9	4776.4	3268.1	2159.5	1421.3	982.8	56.4
43°	10341.5	10109.9	9411.6	8229.0	6761.9	5076.1	3464.4	2270.0	1455.4	994.5	51.7
44°	10560.2	10326.2	9650.3	8493.5	6992.3	5256.0	3591.4	2346.4	1493.0	1009.8	48.2
45°	10489.6	10252.2	9598.6	8498.2	7064.0	5320.6	3645.5	2380.5	1513.0	1023.9	43.5
46°	10166.4	9999.4	9341.1	8277.2	6927.7	5251.3	3614.9	2354.7	1505.9	1023.9	38.8
47°	9712.6	9522.1	8895.6	7897.5	6597.3	5072.6	3491.5	2275.9	1462.4	1000.4	34.1
48°	9094.2	8932.0	8273.7	7294.4	6090.6	4683.5	3212.8	2147.8	1394.2	954.6	29.4
49°	8318.4	8092.7	7480.2	6523.3	5430.0	4131.0	2847.2	1931.5	1284.9	889.9	25.9
50°	7476.7	7198.0	6725.5	5750.9	4747.0	3542.0	2366.4	1632.9	1130.9	805.3	23.5
51°	6652.6	6369.3	5919.0	5090.2	4018.1	2938.9	1909.1	1303.7	931.1	688.9	20.0
52°	5797.9	5560.5	5056.1	4404.9	3439.7	2381.7	1590.6	1102.7	773.5	578.4	16.5
53°	4946.8	4784.6	4305.0	3645.5	2763.8	1945.6	1299.0	944.0	674.8	494.9	12.9
54°	4094.5	3917.0	3552.6	2964.8	2227.7	1535.3	1101.5	790.0	585.4	431.4	11.8
55°	3202.3	3110.6	2774.4	2260.6	1688.1	1224.9	893.4	679.5	490.2	360.9	9.4
56°	2466.4	2362.9	2056.1	1639.9	1254.3	959.3	723.0	554.9	415.0	302.1	7.1
57°	1615.2	1509.4	1306.1	1145.0	913.4	699.5	552.5	437.3	337.4	250.4	5.9
58°	954.6	858.2	826.4	705.3	608.9	474.9	407.9	325.6	249.2	197.5	3.5
59°	438.5	445.5	396.2	371.5	337.4	302.1	248.0	217.5	170.5	142.2	2.4
60°	255.1	241.0	235.1	210.4	186.9	165.8	149.3	131.7	107.0	91.7	1.2
62.5°	87.0	83.5	85.8	77.6	72.9	70.5	64.7	55.3	45.8	37.6	0.0
65°	23.5	23.5	22.3	21.2	20.0	18.8	17.6	15.3	14.1	11.8	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°	8.2	8.2	7.1	7.1	5.9	5.9	4.7	4.7	3.5	3.5	0.0
70°	4.7	4.7	4.7	3.5	3.5	3.5	2.4	2.4	2.4	1.2	0.0
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	2.4	2.4	2.4	1.2	1.2
75°	3.5	3.5	3.5	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°	104.6	104.6	104.6	104.6	104.6	104.6
2.5°	108.2	103.5	97.6	94.0	92.9	91.7
5°	103.5	94.0	87.0	82.3	81.1	81.1
7.5°	92.9	82.3	75.2	72.9	71.7	71.7
10°	81.1	71.7	65.8	63.5	64.7	64.7
12.5°	68.2	60.0	57.6	57.6	58.8	60.0
15°	55.3	50.5	50.5	51.7	54.1	55.3
17.5°	45.8	43.5	44.7	47.0	49.4	51.7
20°	37.6	37.6	40.0	43.5	47.0	49.4
22.5°	31.7	32.9	36.4	40.0	44.7	47.0
25°	27.0	29.4	32.9	38.8	43.5	44.7
27.5°	23.5	27.0	31.7	37.6	42.3	44.7
30°	20.0	24.7	30.6	36.4	42.3	44.7
31°	18.8	23.5	29.4	36.4	42.3	44.7
32°	17.6	23.5	29.4	36.4	42.3	44.7
33°	16.5	22.3	29.4	35.3	42.3	44.7
34°	15.3	22.3	29.4	36.4	42.3	44.7
35°	14.1	21.2	28.2	35.3	41.1	44.7
36°	12.9	21.2	28.2	35.3	42.3	44.7
37°	11.8	21.2	28.2	35.3	41.1	44.7
38°	11.8	20.0	27.0	35.3	41.1	44.7
39°	10.6	18.8	27.0	35.3	41.1	44.7
40°	9.4	18.8	25.9	34.1	41.1	44.7
41°	8.2	17.6	25.9	34.1	41.1	44.7
42°	7.1	17.6	25.9	34.1	41.1	44.7
43°	5.9	16.5	24.7	34.1	41.1	44.7
44°	5.9	16.5	24.7	34.1	41.1	44.7
45°	4.7	15.3	23.5	34.1	41.1	44.7
46°	4.7	15.3	23.5	32.9	41.1	44.7
47°	3.5	15.3	23.5	32.9	41.1	44.7
48°	3.5	14.1	23.5	32.9	41.1	44.7
49°	2.4	14.1	23.5	32.9	41.1	44.7
50°	2.4	14.1	22.3	32.9	41.1	44.7
51°	2.4	14.1	22.3	32.9	41.1	44.7
52°	2.4	12.9	22.3	32.9	41.1	44.7
53°	2.4	12.9	22.3	32.9	41.1	44.7
54°	2.4	12.9	21.2	32.9	41.1	44.7
55°	2.4	11.8	21.2	31.7	41.1	43.5
56°	2.4	11.8	21.2	31.7	41.1	43.5
57°	2.4	11.8	20.0	31.7	41.1	43.5
58°	2.4	10.6	20.0	30.6	40.0	43.5
59°	2.4	10.6	18.8	30.6	40.0	42.3
60°	2.4	9.4	18.8	29.4	38.8	42.3
62.5°	2.4	8.2	16.5	28.2	37.6	40.0
65°	2.4	7.1	15.3	25.9	36.4	38.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.4	7.1	14.1	24.7	34.1	37.6
70°	2.4	7.1	12.9	22.3	32.9	34.1
72.5°	3.5	7.1	11.8	21.2	30.6	31.7
75°	4.7	7.1	10.6	18.8	28.2	29.4
77.5°	4.7	7.1	9.4	16.5	24.7	25.9
80°	4.7	5.9	8.2	12.9	20.0	21.2
82.5°	4.7	5.9	5.9	10.6	15.3	16.5
85°	3.5	4.7	4.7	5.9	10.6	11.8
87.5°	3.5	4.7	2.4	3.5	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)