

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: P1320219

Luminaire Tested: LDSQA3D17R209840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320219
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: LDSQA3D17R209840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

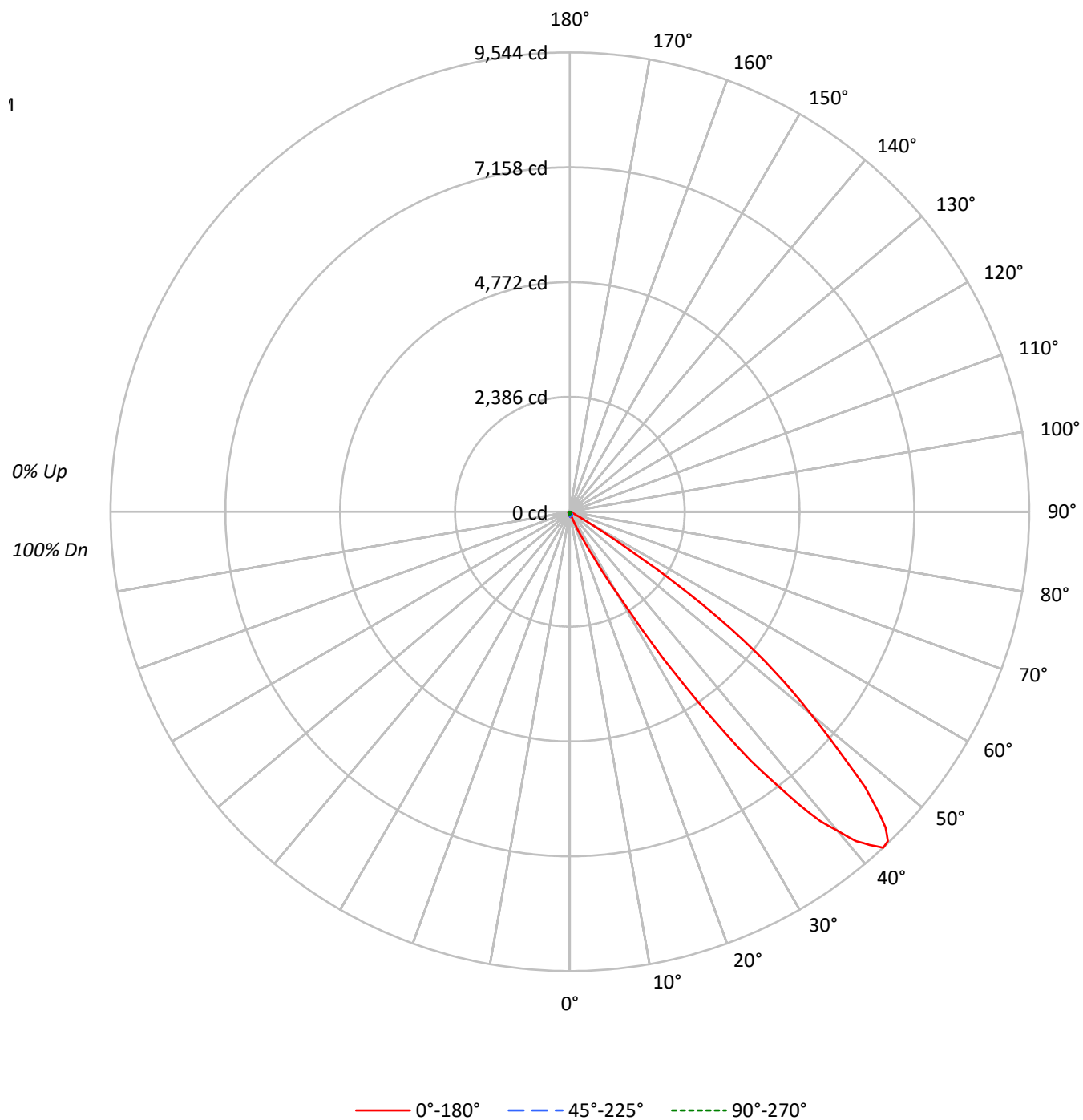
Lumens per Lamp: N/A
Luminaire Lumens: 1326.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35	35
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29	29
8	57	42	33	27	55	42	33	27	40	33	27	39	32	27	38	31	27	25	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21
10	48	34	25	20	47	33	25	20	32	25	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15879	15879	15879	15879	15879
5°	18533	17236	14868	12931	12499
10°	18310	15687	11769	10021	9811
15°	15993	11999	8665	8006	8451
20°	23753	10043	6396	6855	7533
25°	102291	10413	4979	6157	7335
30°	386833	12648	4216	5946	7179
35°	1172684	15201	3932	6034	7590
40°	1944564	15130	3372	6452	8116
45°	2260209	10327	3044	6674	8793
50°	1754518	5680	3001	7020	10021
55°	1015483	3753	3003	7867	10839
60°	171706	861	2583	8163	12021
65°	13203	0	3056	9128	13692
70°	1863	0	3777	10021	15711
75°	1664	799	4126	11578	18232
80°	1190	1190	6149	12397	21026
85°	2371	2371	9880	12251	22132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2260209 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.6
10°-20°	16.6	1.3
20°-30°	53.0	4.0
30°-40°	338.1	25.5
40°-50°	618.9	46.7
50°-60°	254.3	19.2
60°-70°	21.5	1.6
70°-80°	10.7	0.8
80°-90°	5.0	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°	77.5	5.8
0°-40°	415.6	31.3
0°-60°	1288.8	97.2
0°-90°	1326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	107	100	86	75	72	10
15°	90	67	49	45	47	29
25°	538	55	26	32	39	354
35°	5578	72	19	29	36	3530
45°	9280	42	12	27	36	6663
55°	3382	12	10	26	36	2956
65°	32	0	8	22	34	106
75°	2	1	6	17	27	3
85°	1	1	5	6	11	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°	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
2.5°	100.9	100.9	100.9	99.7	99.7	100.9	99.7	99.7	99.7	99.7	98.4
5°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	105.9	105.9	104.7	99.7
7.5°	109.7	109.7	109.7	109.7	108.4	108.4	108.4	108.4	107.2	105.9	97.2
10°	104.7	104.7	104.7	103.4	103.4	103.4	102.2	102.2	100.9	99.7	89.7
12.5°	94.7	94.7	94.7	94.7	93.5	93.5	92.2	92.2	91.0	89.7	78.5
15°	89.7	89.7	89.7	88.5	88.5	87.2	86.0	84.7	83.5	81.0	67.3
17.5°	97.2	97.2	96.0	96.0	93.5	91.0	89.7	86.0	83.5	79.8	59.8
20°	129.6	130.8	125.9	122.1	119.6	112.2	108.4	102.2	97.2	91.0	54.8
22.5°	261.7	256.7	248.0	234.3	218.1	204.4	179.4	159.5	145.8	127.1	53.6
25°	538.3	533.3	509.7	489.7	439.9	401.3	347.7	304.1	259.2	215.6	54.8
27.5°	1023.1	989.4	983.2	892.2	822.4	722.8	619.3	532.1	452.3	363.9	58.6
30°	1945.2	1906.6	1770.7	1633.7	1445.5	1232.4	1029.3	839.9	681.6	538.3	63.6
31°	2468.6	2506.0	2346.5	2071.1	1793.2	1520.3	1242.4	1001.9	797.5	619.3	66.0
32°	3244.9	3081.7	2913.4	2630.6	2226.8	1877.9	1529.0	1182.6	913.4	706.6	68.5
33°	3978.9	3882.9	3626.2	3273.6	2788.8	2299.1	1846.8	1395.7	1055.5	812.5	69.8
34°	4761.5	4655.5	4447.4	3941.5	3409.4	2767.7	2164.5	1641.2	1224.9	915.9	71.0
35°	5577.7	5532.8	5131.6	4692.9	4038.7	3264.9	2547.1	1910.3	1390.7	1010.6	72.3
36°	6398.9	6254.3	5940.3	5299.8	4616.9	3724.7	2948.3	2160.8	1558.9	1122.8	72.3
37°	7017.0	6984.6	6568.3	5944.0	5141.5	4215.7	3294.8	2438.7	1728.4	1218.7	72.3
38°	7698.6	7570.2	7147.8	6512.3	5635.0	4665.5	3657.4	2680.4	1889.1	1305.9	71.0
39°	8273.0	8082.4	7656.2	7028.2	6066.2	5006.9	3945.2	2914.7	2031.2	1378.2	69.8
40°	8649.4	8517.3	8072.4	7365.9	6457.4	5329.7	4236.8	3107.8	2137.1	1433.0	67.3
41°	9064.3	8845.0	8405.1	7694.8	6741.6	5613.8	4420.0	3235.0	2219.4	1469.2	64.8
42°	9312.3	9132.9	8610.7	7915.4	6944.7	5775.8	4569.6	3332.1	2269.2	1487.9	59.8
43°	9544.1	9299.9	8791.4	8043.8	7079.3	5890.5	4638.1	3377.0	2280.4	1487.9	53.6
44°	9512.9	9281.2	8754.1	8061.2	7109.2	5924.1	4666.8	3378.3	2263.0	1469.2	47.4
45°	9279.9	9049.4	8574.6	7909.2	7002.0	5858.1	4609.4	3328.4	2214.4	1436.8	42.4
46°	8852.5	8623.2	8259.3	7655.0	6802.6	5708.5	4476.1	3220.0	2133.4	1384.4	37.4
47°	8387.7	8164.6	7792.0	7245.0	6462.4	5441.8	4282.9	3068.0	2020.0	1308.4	33.6
48°	7713.5	7574.0	7200.1	6732.8	5990.1	5024.4	3944.0	2820.0	1867.9	1210.0	28.7
49°	7117.9	6970.8	6643.1	6140.9	5374.6	4538.4	3539.0	2518.4	1669.8	1100.3	24.9
50°	6548.4	6420.1	6117.2	5550.3	4818.8	3951.5	2992.0	2138.4	1420.6	964.5	21.2
51°	5991.4	5895.4	5586.4	5065.5	4322.8	3500.4	2591.9	1780.7	1173.9	800.0	19.9
52°	5431.9	5420.7	5085.5	4558.3	3840.6	3050.5	2203.2	1502.8	995.7	671.7	18.7
53°	4830.0	4757.7	4464.9	3991.4	3302.2	2582.0	1867.9	1267.3	857.3	572.0	16.2
54°	4144.6	4063.6	3749.6	3322.2	2697.9	2114.7	1505.3	1024.3	714.0	483.5	15.0
55°	3382.0	3243.7	3015.6	2577.0	2107.2	1613.7	1162.6	811.2	570.7	402.5	12.5
56°	2565.8	2427.5	2299.1	1976.4	1546.4	1203.8	866.1	621.8	446.1	317.8	11.2
57°	1784.5	1777.0	1566.4	1318.4	1034.3	820.0	593.2	438.6	315.3	246.7	8.7
58°	1157.7	1119.0	984.4	841.1	676.6	512.2	381.3	297.8	214.3	168.2	7.5
59°	811.2	734.0	661.7	560.8	426.2	322.7	245.5	190.7	148.3	117.1	5.0
60°	498.5	482.3	433.7	341.4	276.6	228.0	183.2	140.8	108.4	83.5	2.5
62.5°	142.1	144.6	130.8	115.9	99.7	86.0	77.3	66.0	54.8	43.6	0.0
65°	32.4	31.2	33.6	31.2	28.7	28.7	24.9	22.4	19.9	18.7	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°	10.0	10.0	8.7	8.7	8.7	7.5	7.5	6.2	6.2	5.0	0.0
70°	3.7	3.7	3.7	3.7	3.7	2.5	2.5	2.5	1.2	1.2	0.0
72.5°	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
77.5°	2.5	2.5	2.5	2.5	2.5	1.2	2.5	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	0.0	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°	92.2	92.2	92.2	92.2	92.2	92.2
2.5°	96.0	91.0	87.2	83.5	82.2	82.2
5°	93.5	86.0	78.5	74.8	72.3	72.3
7.5°	86.0	77.3	69.8	66.0	64.8	64.8
10°	77.3	67.3	59.8	57.3	57.3	56.1
12.5°	67.3	57.3	52.3	51.1	51.1	51.1
15°	56.1	48.6	44.9	44.9	46.1	47.4
17.5°	47.4	39.9	38.6	41.1	43.6	43.6
20°	39.9	34.9	34.9	37.4	39.9	41.1
22.5°	33.6	29.9	31.2	34.9	38.6	39.9
25°	29.9	26.2	28.7	32.4	36.1	38.6
27.5°	24.9	23.7	26.2	31.2	36.1	37.4
30°	21.2	21.2	24.9	29.9	34.9	36.1
31°	19.9	19.9	24.9	29.9	34.9	36.1
32°	18.7	19.9	23.7	29.9	34.9	36.1
33°	17.4	18.7	23.7	28.7	34.9	36.1
34°	16.2	18.7	23.7	28.7	34.9	36.1
35°	15.0	18.7	23.7	28.7	34.9	36.1
36°	13.7	17.4	22.4	28.7	34.9	36.1
37°	12.5	17.4	22.4	28.7	34.9	36.1
38°	11.2	16.2	22.4	28.7	34.9	36.1
39°	11.2	16.2	21.2	28.7	33.6	36.1
40°	10.0	15.0	21.2	28.7	33.6	36.1
41°	8.7	15.0	21.2	27.4	33.6	36.1
42°	7.5	13.7	19.9	27.4	33.6	36.1
43°	6.2	13.7	19.9	27.4	33.6	36.1
44°	6.2	12.5	19.9	27.4	33.6	36.1
45°	5.0	12.5	19.9	27.4	33.6	36.1
46°	3.7	12.5	19.9	27.4	33.6	36.1
47°	3.7	11.2	18.7	27.4	33.6	36.1
48°	2.5	11.2	18.7	27.4	33.6	36.1
49°	2.5	11.2	18.7	27.4	33.6	37.4
50°	2.5	11.2	18.7	26.2	33.6	37.4
51°	1.2	11.2	18.7	26.2	33.6	37.4
52°	1.2	11.2	17.4	26.2	34.9	37.4
53°	1.2	10.0	17.4	26.2	34.9	37.4
54°	1.2	10.0	17.4	26.2	34.9	36.1
55°	1.2	10.0	17.4	26.2	33.6	36.1
56°	1.2	8.7	17.4	26.2	33.6	36.1
57°	1.2	8.7	16.2	24.9	33.6	34.9
58°	1.2	8.7	16.2	24.9	33.6	34.9
59°	1.2	8.7	16.2	24.9	32.4	34.9
60°	2.5	7.5	15.0	23.7	32.4	34.9
62.5°	2.5	7.5	15.0	23.7	31.2	33.6
65°	2.5	7.5	13.7	22.4	31.2	33.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.5	6.2	12.5	21.2	29.9	32.4
70°	2.5	7.5	12.5	19.9	28.7	31.2
72.5°	3.7	6.2	11.2	18.7	27.4	29.9
75°	3.7	6.2	11.2	17.4	26.2	27.4
77.5°	5.0	6.2	10.0	15.0	23.7	24.9
80°	5.0	6.2	8.7	12.5	19.9	21.2
82.5°	5.0	6.2	6.2	10.0	15.0	16.2
85°	3.7	5.0	5.0	6.2	10.0	11.2
87.5°	3.7	5.0	3.7	2.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)