

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: P1308009

Luminaire Tested: LDSQA3D09R509027DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R509027DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

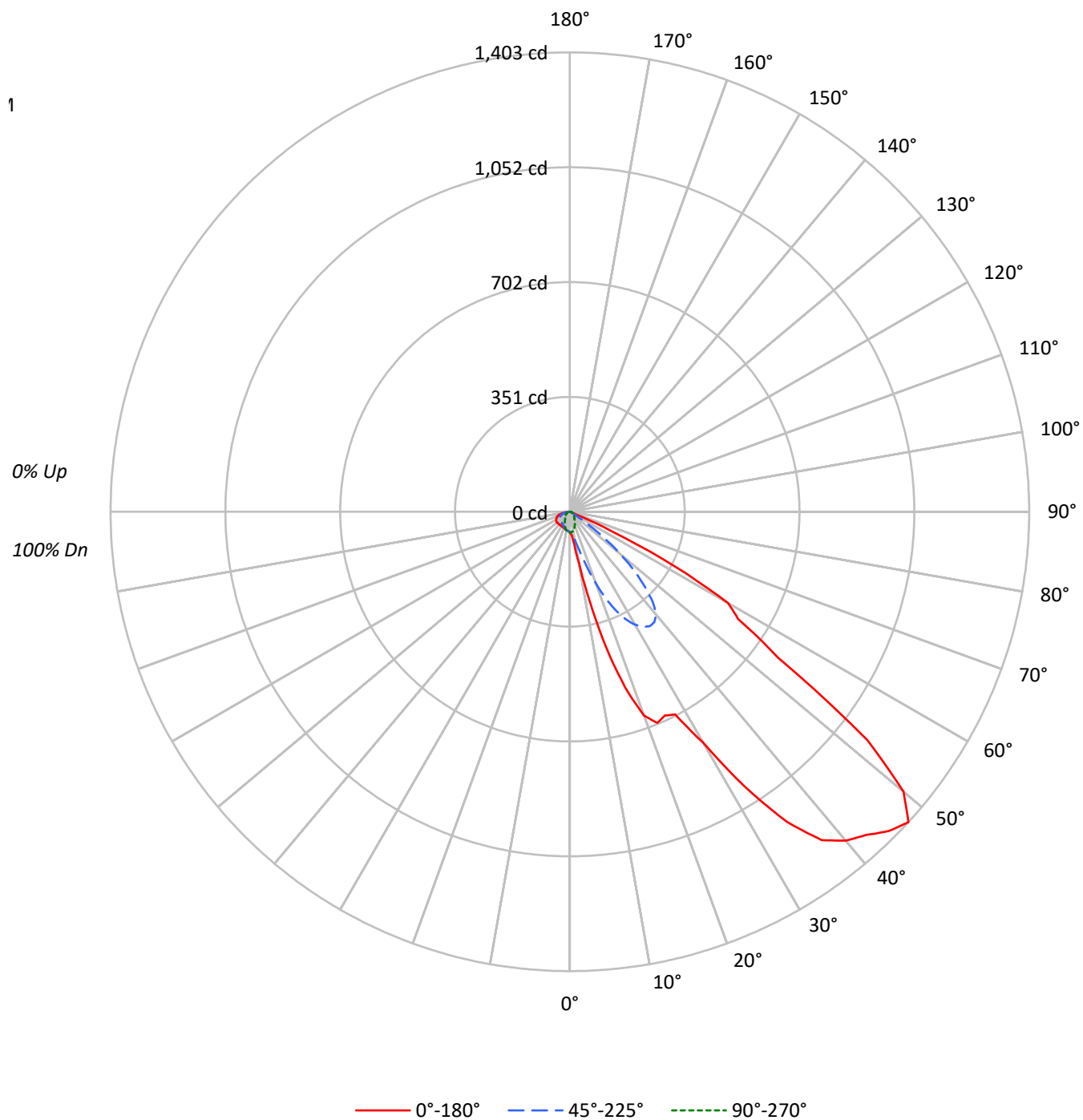
Lumens per Lamp: N/A
Luminaire Lumens: 791.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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

TEST NUMBER: P1308009

CATALOG NUMBER: LDSQA3D09R509027DE010 3LSQCA45R 1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1308009

CATALOG NUMBER: LDSQA3D09R509027DE010 3LSQCA45R 1MW

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10833	10833	10833	10833	10833
5°	12880	12050	10753	10269	10165
10°	27718	14935	10283	9916	10038
15°	76739	24480	9254	9503	9860
20°	121328	42941	8009	9145	9640
25°	130472	63089	6879	8836	9729
30°	161956	79208	5986	8690	10063
35°	243043	89627	5172	8767	10638
40°	294762	92154	4609	9060	11219
45°	335796	79035	4481	9645	12324
50°	356402	54551	4582	10423	13718
55°	232852	21949	4504	11290	15193
60°	192028	3754	4478	12228	16706
65°	57908	1956	4157	13081	18379
70°	2417	2065	4129	13394	19940
75°	2262	2262	4059	13641	21826
80°	1984	1984	4066	13588	22315
85°	1383	2766	5335	13437	21539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 357553 cd/sqm

TEST NUMBER: P1308009

CATALOG NUMBER: LDSQA3D09R509027DE010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.8
10°-20°	37.5	4.7
20°-30°	96.3	12.2
30°-40°	173.0	21.9
40°-50°	231.0	29.2
50°-60°	176.0	22.2
60°-70°	53.4	6.8
70°-80°	12.8	1.6
80°-90°	4.6	0.6
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°	140.3	17.7
0°-40°	313.2	39.6
0°-60°	720.2	91.1
0°-90°	791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	74	70	62	59	59	10
15°	430	137	52	53	55	127
25°	687	332	36	46	51	328
35°	1156	426	25	42	51	710
45°	1379	324	18	40	51	1054
55°	776	73	15	38	51	771
65°	142	5	10	32	45	197
75°	3	3	6	20	33	4
85°	1	1	3	7	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1308009

CATALOG NUMBER: LDSQA3D09R509027DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
2.5°	67.0	67.0	67.0	67.0	67.0	67.0	66.3	66.3	66.3	64.9	63.5
5°	74.5	75.2	74.5	74.5	73.1	73.1	71.7	71.7	69.7	65.6	62.2
7.5°	97.7	97.0	96.3	93.6	91.6	86.8	84.7	81.3	75.2	65.6	60.8
10°	158.5	154.4	151.7	145.5	132.5	124.3	113.4	102.5	85.4	65.6	58.8
12.5°	275.3	274.7	266.5	246.0	227.5	202.2	175.6	148.9	105.2	64.2	56.0
15°	430.4	424.3	412.7	388.8	356.0	316.3	268.5	221.4	137.3	62.2	51.9
17.5°	563.0	555.5	546.6	522.7	485.1	435.2	377.8	312.9	181.1	59.4	47.8
20°	662.0	657.3	649.7	630.6	595.1	550.0	485.8	407.2	234.3	56.0	43.7
22.5°	698.2	697.6	698.9	692.1	674.3	638.8	577.3	495.3	287.0	51.9	39.6
25°	686.6	686.0	694.8	703.7	707.8	693.5	646.3	566.4	332.0	48.5	36.2
27.5°	697.6	695.5	691.4	692.8	704.4	712.6	690.7	621.0	371.0	43.7	32.8
30°	814.4	802.8	784.3	752.9	729.7	727.6	718.1	664.1	398.3	38.9	30.1
32.5°	996.8	982.5	949.0	890.9	835.6	793.2	763.2	700.3	417.4	34.2	26.6
35°	1156.0	1145.8	1106.8	1049.4	970.2	890.9	836.3	753.6	426.3	30.1	24.6
37.5°	1264.0	1259.9	1221.6	1160.1	1079.5	985.9	913.5	808.2	424.3	25.3	22.5
40°	1311.1	1298.8	1266.7	1214.8	1133.5	1049.4	972.9	843.1	409.9	20.5	20.5
42.5°	1339.1	1325.4	1290.6	1241.4	1161.5	1072.0	979.7	828.1	375.8	16.4	19.8
45°	1378.7	1364.4	1318.6	1266.0	1185.4	1081.5	953.1	774.8	324.5	12.3	18.4
47.5°	1402.6	1393.1	1358.9	1306.3	1208.6	1067.9	891.6	724.9	267.8	9.6	17.8
50°	1330.2	1320.7	1295.4	1259.2	1193.6	1022.1	837.6	644.3	203.6	7.5	17.1
52.5°	1145.1	1153.3	1158.1	1168.3	1120.5	919.6	757.0	580.1	137.3	6.1	15.7
55°	775.5	787.8	801.4	842.4	898.4	818.5	672.3	501.5	73.1	6.1	15.0
57.5°	609.4	605.3	601.2	598.5	642.2	675.0	591.0	401.0	31.4	6.1	13.7
60°	557.5	545.2	537.0	539.1	560.9	547.9	468.0	261.7	10.9	6.1	13.0
62.5°	365.5	375.1	393.5	425.0	409.9	351.9	271.9	103.8	5.5	6.1	11.6
65°	142.1	137.3	142.1	151.0	130.5	97.0	60.8	18.4	4.8	5.5	10.2
67.5°	19.1	17.1	13.0	8.2	7.5	6.8	5.5	4.8	4.8	5.5	9.6
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.1	4.1	4.8	8.2
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.8	6.8
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	6.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.8
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	4.1
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.7	3.4
85°	0.7	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1308009

CATALOG NUMBER: LDSQA3D09R509027DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	62.9	62.9	62.9	62.9
2.5°	62.2	60.8	60.8	60.8
5°	60.8	59.4	59.4	58.8
7.5°	58.8	58.1	58.1	58.1
10°	57.4	56.7	57.4	57.4
12.5°	54.7	55.3	56.0	56.0
15°	51.9	53.3	54.7	55.3
17.5°	49.2	51.9	53.3	54.0
20°	46.5	49.9	51.9	52.6
22.5°	44.4	47.8	50.6	51.9
25°	41.7	46.5	49.9	51.2
27.5°	38.9	44.4	48.5	50.6
30°	36.9	43.7	48.5	50.6
32.5°	34.8	42.4	47.8	49.9
35°	33.5	41.7	47.8	50.6
37.5°	32.1	41.0	47.8	49.9
40°	31.4	40.3	47.8	49.9
42.5°	30.7	40.3	47.8	50.6
45°	29.4	39.6	47.8	50.6
47.5°	28.7	39.6	47.8	50.6
50°	28.0	38.9	47.8	51.2
52.5°	27.3	38.3	47.8	51.2
55°	26.0	37.6	47.1	50.6
57.5°	25.3	36.9	46.5	49.2
60°	23.9	35.5	45.1	48.5
62.5°	22.5	34.2	43.7	46.5
65°	20.5	32.1	41.7	45.1
67.5°	18.4	29.4	39.6	43.0
70°	16.4	26.6	36.9	39.6
72.5°	14.3	23.9	34.2	36.2
75°	12.3	20.5	30.1	32.8
77.5°	10.2	17.8	25.3	27.3
80°	7.5	13.7	20.5	22.5
82.5°	6.1	10.2	15.0	16.4
85°	4.1	6.8	9.6	10.9
87.5°	2.0	3.4	4.8	5.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)