

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: P1312796

Luminaire Tested: LDSQA3D17R709050DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

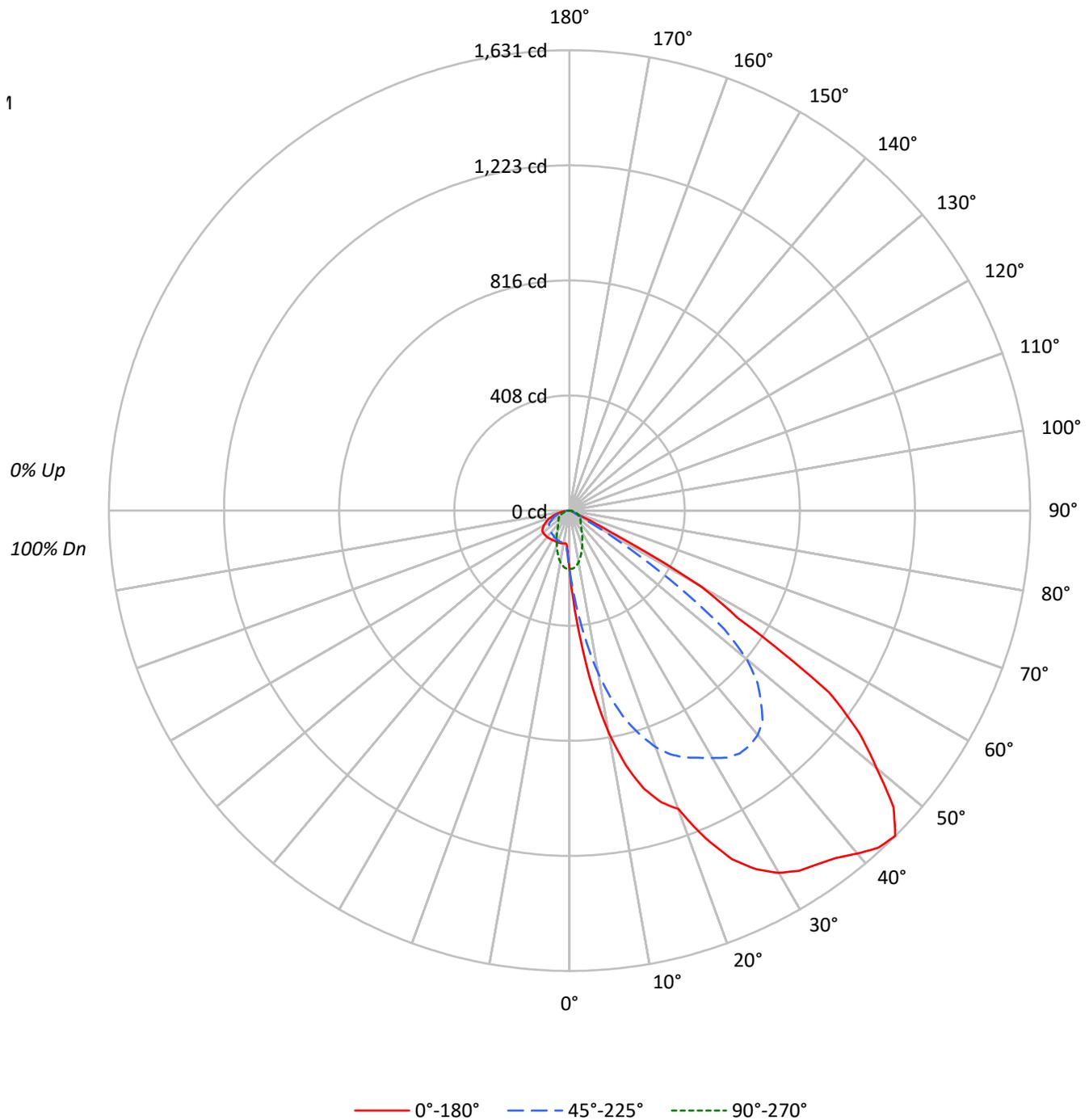
Test Method: LM-79-2019  
Report Number: P1312796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709050DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1409.0 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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: P1312796  
CATALOG NUMBER: LDSQA3D17R709050DE010 3LSQCA45R 1MW

### 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64				
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54				
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41				
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35				
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31				
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	35340	35340	35340	35340	35340
5°	80441	64398	34991	22111	20659
10°	139396	102270	32458	20164	20653
15°	181971	136594	28332	20558	21307
20°	206112	163353	24211	20875	22158
25°	258854	183262	20295	21112	22708
30°	294659	201272	17341	21517	24043
35°	321570	220778	15075	21865	25419
40°	356498	233251	13916	22752	27496
45°	397173	233501	13688	23966	29787
50°	380408	219596	13557	25239	32393
55°	336833	142234	13932	26603	35040
60°	184485	30518	14053	27108	36305
65°	13163	7457	13733	26937	36676
70°	6395	7100	12740	25479	35399
75°	5590	7453	12177	24288	32739
80°	5554	6943	11108	22315	30646
85°	5533	8299	11066	19365	27862

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 397173 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.8	1.9
10°-20°	114.5	8.1
20°-30°	219.7	15.6
30°-40°	310.7	22.0
40°-50°	351.4	24.9
50°-60°	278.3	19.8
60°-70°	75.0	5.3
70°-80°	24.9	1.8
80°-90°	7.6	0.5
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°	361.0	25.6
0°-40°	671.7	47.7
0°-60°	1301.4	92.4
0°-90°	1409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	205	205	205	205	205	
5°	465	372	202	128	120	55
15°	1021	766	159	115	120	288
25°	1362	964	107	111	120	624
35°	1530	1050	72	104	121	963
45°	1631	959	56	98	122	1220
55°	1122	474	46	89	117	910
65°	32	18	34	66	90	117
75°	8	11	18	36	49	9
85°	3	4	6	10	14	3
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°	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2
2.5°	319.1	319.1	317.7	312.1	309.3	302.2	296.6	281.2	243.2	206.6	177.1
5°	465.3	472.3	462.5	461.1	452.7	440.0	431.6	372.5	281.2	202.4	151.8
7.5°	638.2	641.0	638.2	624.2	611.5	590.4	570.7	478.0	319.1	195.4	133.5
10°	797.1	792.8	784.4	774.6	756.3	733.8	700.1	584.8	355.7	185.6	122.3
12.5°	926.4	925.0	915.2	905.3	882.8	853.3	819.6	681.8	386.6	172.9	116.7
15°	1020.6	1020.6	1010.7	999.5	978.4	954.5	916.6	766.1	411.9	158.9	111.1
17.5°	1083.8	1081.0	1074.0	1065.6	1048.7	1024.8	995.3	833.6	428.8	144.8	109.6
20°	1124.6	1123.2	1117.6	1104.9	1090.9	1072.6	1045.9	891.3	435.8	132.1	108.2
22.5°	1255.3	1244.1	1223.0	1196.3	1162.6	1119.0	1082.4	934.8	433.0	118.1	105.4
25°	1362.2	1358.0	1335.5	1303.1	1258.2	1201.9	1141.5	964.4	418.9	106.8	102.6
27.5°	1432.5	1425.4	1404.4	1369.2	1321.4	1266.6	1210.4	986.8	399.2	97.0	98.4
30°	1481.7	1477.5	1456.4	1417.0	1367.8	1307.4	1249.7	1012.1	372.5	87.2	94.2
32.5°	1512.6	1508.4	1487.3	1452.2	1404.4	1341.1	1275.0	1037.5	340.2	78.7	90.0
35°	1529.5	1525.3	1501.4	1470.4	1425.4	1363.6	1293.3	1050.1	300.8	71.7	85.8
37.5°	1550.6	1542.1	1509.8	1471.8	1426.8	1369.2	1298.9	1048.7	261.5	66.1	82.9
40°	1585.7	1563.2	1516.8	1466.2	1419.8	1362.2	1294.7	1037.5	217.9	61.9	80.1
42.5°	1619.4	1587.1	1518.2	1457.8	1405.8	1349.5	1279.2	1012.1	170.1	59.0	78.7
45°	1630.7	1582.9	1498.5	1438.1	1388.9	1331.3	1258.2	958.7	115.3	56.2	75.9
47.5°	1556.2	1521.0	1450.7	1405.8	1359.4	1303.1	1227.2	902.5	66.1	53.4	73.1
50°	1419.8	1397.3	1358.0	1329.9	1304.5	1265.2	1190.7	819.6	39.4	50.6	70.3
52.5°	1293.3	1286.3	1258.2	1235.7	1221.6	1203.3	1135.9	691.6	32.3	49.2	67.5
55°	1121.8	1099.3	1092.3	1083.8	1113.4	1112.0	1020.6	473.7	30.9	46.4	64.7
57.5°	704.3	714.1	750.7	818.2	898.3	944.7	941.9	253.0	29.5	43.6	60.4
60°	535.6	534.2	545.4	573.6	632.6	698.7	760.5	88.6	28.1	40.8	57.6
62.5°	160.3	164.5	198.2	291.0	348.6	430.2	392.2	21.1	26.7	36.5	52.0
65°	32.3	33.7	33.7	38.0	46.4	70.3	85.8	18.3	25.3	33.7	47.8
67.5°	14.1	14.1	14.1	15.5	15.5	18.3	15.5	16.9	22.5	29.5	42.2
70°	12.7	12.7	12.7	12.7	12.7	12.7	14.1	14.1	19.7	25.3	36.5
72.5°	9.8	9.8	9.8	11.2	11.2	11.2	11.2	12.7	16.9	21.1	30.9
75°	8.4	8.4	8.4	8.4	9.8	9.8	9.8	11.2	14.1	18.3	25.3
77.5°	7.0	7.0	7.0	7.0	7.0	8.4	8.4	8.4	11.2	14.1	21.1
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.0	8.4	11.2	15.5
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	7.0	8.4	11.2
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.6	7.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2
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):**

	135°	157.5°	180°
0°	205.2	205.2	205.2
2.5°	156.0	147.6	143.4
5°	127.9	120.9	119.5
7.5°	118.1	116.7	116.7
10°	115.3	116.7	118.1
12.5°	115.3	118.1	119.5
15°	115.3	118.1	119.5
17.5°	115.3	118.1	119.5
20°	113.9	118.1	120.9
22.5°	112.5	118.1	119.5
25°	111.1	118.1	119.5
27.5°	109.6	116.7	119.5
30°	108.2	116.7	120.9
32.5°	105.4	116.7	120.9
35°	104.0	116.7	120.9
37.5°	102.6	116.7	122.3
40°	101.2	116.7	122.3
42.5°	99.8	116.7	122.3
45°	98.4	115.3	122.3
47.5°	95.6	115.3	122.3
50°	94.2	113.9	120.9
52.5°	91.4	112.5	120.9
55°	88.6	109.6	116.7
57.5°	84.3	105.4	111.1
60°	78.7	99.8	105.4
62.5°	71.7	92.8	97.0
65°	66.1	84.3	90.0
67.5°	57.6	74.5	80.1
70°	50.6	64.7	70.3
72.5°	43.6	54.8	60.4
75°	36.5	45.0	49.2
77.5°	28.1	36.5	39.4
80°	22.5	28.1	30.9
82.5°	15.5	19.7	21.1
85°	9.8	12.7	14.1
87.5°	4.2	5.6	5.6
90°	0.0	0.0	0.0

(END OF REPORT)