

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: P1314809

Luminaire Tested: LDSQA3D17R359730DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

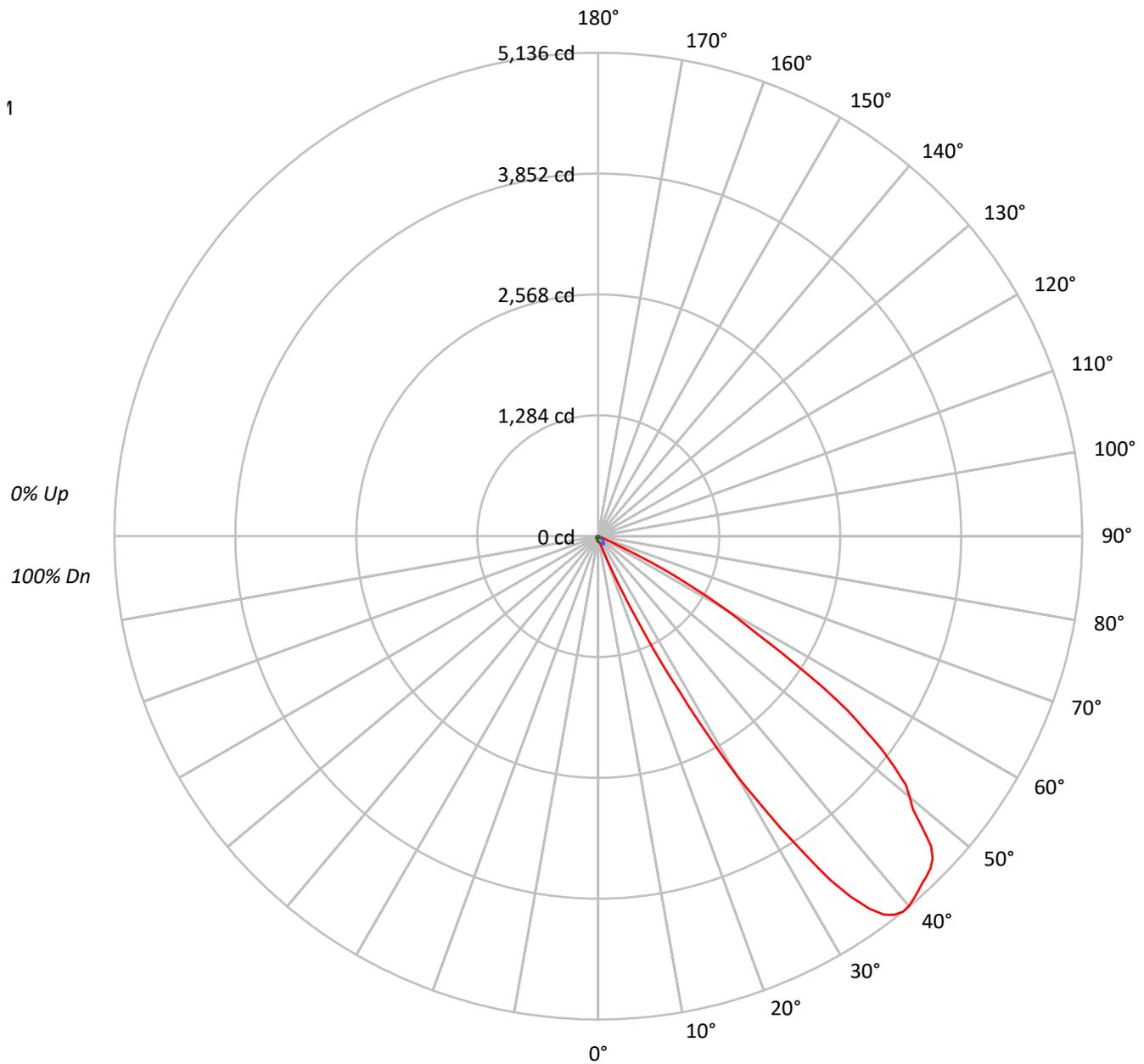
Test Method: LM-79-2019  
Report Number: P1314809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R359730DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1279.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
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

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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			100	
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87			87	
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73			73	
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61			61	
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50			50	
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42			42	
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35			35	
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29			29	
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24			24	
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20			20	
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17			17	

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

	0°	45°	90°	135°	180°
0°	10144	10144	10144	10144	10144
5°	10978	10770	9975	8990	8782
10°	11507	10493	8884	7677	7677
15°	16475	10288	7203	6579	6793
20°	41255	10997	5718	5718	6341
25°	191528	14043	4390	5264	5929
30°	582278	19051	3440	4813	5966
35°	984073	22097	2922	4604	5824
40°	1153532	21808	2338	4676	6228
45°	1214802	15466	1973	5066	6747
50°	1156336	9270	1849	5251	7422
55°	968942	3813	2072	5885	8678
60°	542432	792	2377	6751	9541
65°	93647	489	2364	7539	10840
70°	1762	604	2921	8157	12186
75°	1530	799	3859	9249	13841
80°	1190	1190	4562	10315	16067
85°	0	2371	9090	11461	18180

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 1223407 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.3	0.4
10°-20°	15.1	1.2
20°-30°	78.5	6.1
30°-40°	338.9	26.5
40°-50°	483.5	37.8
50°-60°	299.4	23.4
60°-70°	45.6	3.6
70°-80°	8.5	0.7
80°-90°	4.3	0.3
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°	98.9	7.7
0°-40°	437.8	34.2
0°-60°	1220.7	95.4
0°-90°	1279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	64	62	58	52	51	6
15°	92	58	40	37	38	33
25°	1008	74	23	28	31	603
35°	4681	105	14	22	28	2810
45°	4988	64	8	21	28	3768
55°	3227	13	7	20	29	2748
65°	230	1	6	18	27	469
75°	2	1	6	14	21	2
85°	0	1	5	6	9	0
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°	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
2.5°	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	58.9	57.7
5°	63.5	63.5	62.3	62.3	62.3	62.3	62.3	62.3	60.0	57.7	54.3
7.5°	64.7	64.7	63.5	63.5	63.5	63.5	62.3	61.2	58.9	54.3	50.8
10°	65.8	65.8	65.8	65.8	64.7	63.5	62.3	60.0	56.6	50.8	47.3
12.5°	73.9	73.9	72.7	70.4	68.1	65.8	63.5	58.9	52.0	46.2	42.7
15°	92.4	91.2	88.9	85.4	80.8	75.0	70.4	57.7	47.3	40.4	38.1
17.5°	129.3	127.0	123.5	112.0	101.6	91.2	82.0	57.7	42.7	35.8	33.5
20°	225.1	226.3	202.0	174.3	151.2	125.8	102.8	60.0	38.1	31.2	30.0
22.5°	469.9	451.4	393.7	326.7	249.4	192.8	145.5	65.8	33.5	26.6	26.6
25°	1007.9	937.5	797.8	602.7	424.9	301.3	211.3	73.9	30.0	23.1	24.2
27.5°	1840.4	1776.9	1496.3	1126.9	748.2	454.9	286.3	84.3	26.6	19.6	21.9
30°	2928.0	2752.5	2386.5	1847.3	1250.4	696.2	384.5	95.8	21.9	17.3	20.8
31°	3267.4	3186.6	2741.0	2137.1	1465.2	826.7	426.0	99.3	20.8	17.3	19.6
32°	3670.4	3527.2	3127.7	2454.6	1683.4	943.3	475.7	102.8	19.6	15.0	19.6
33°	4030.6	3892.1	3406.0	2734.0	1903.9	1076.1	528.8	103.9	17.3	15.0	18.5
34°	4409.3	4220.0	3738.5	3026.1	2130.2	1219.2	577.3	105.1	16.2	13.9	18.5
35°	4680.6	4491.3	4024.8	3257.0	2325.3	1346.2	632.7	105.1	15.0	13.9	17.3
36°	4890.8	4724.5	4271.9	3494.9	2519.3	1460.5	676.6	105.1	12.7	12.7	17.3
37°	5035.1	4876.9	4438.2	3699.2	2667.1	1562.1	715.8	105.1	11.5	12.7	17.3
38°	5105.5	4973.9	4598.7	3848.2	2810.2	1641.8	747.0	102.8	10.4	11.5	16.2
39°	5135.5	5028.2	4696.8	3974.0	2917.6	1711.1	770.1	100.4	9.2	11.5	16.2
40°	5130.9	5037.4	4752.2	4060.6	3004.2	1758.4	782.8	97.0	8.1	10.4	16.2
41°	5104.4	5023.5	4781.1	4134.5	3056.2	1790.7	786.3	93.5	6.9	10.4	15.0
42°	5074.3	5000.4	4790.3	4173.8	3089.6	1801.1	777.0	88.9	6.9	9.2	15.0
43°	5043.2	4975.0	4790.3	4186.5	3097.7	1794.2	762.0	80.8	5.8	9.2	15.0
44°	5017.8	4953.1	4775.3	4183.0	3080.4	1767.6	734.3	71.6	4.6	9.2	15.0
45°	4987.7	4924.2	4755.7	4161.1	3046.9	1722.6	699.7	63.5	3.5	8.1	15.0
46°	4934.6	4885.0	4721.0	4116.0	2993.8	1660.3	655.8	57.7	2.3	8.1	13.9
47°	4831.9	4789.2	4654.1	4049.1	2923.4	1586.4	610.8	52.0	2.3	8.1	13.9
48°	4625.2	4624.1	4520.1	3924.4	2811.4	1494.0	563.4	46.2	2.3	8.1	13.9
49°	4425.5	4404.7	4275.4	3705.0	2650.9	1383.2	513.8	41.6	1.2	8.1	13.9
50°	4315.8	4270.8	4058.3	3446.4	2445.4	1229.6	460.7	34.6	1.2	6.9	13.9
51°	4201.5	4136.8	3886.3	3213.2	2200.6	1081.8	402.9	27.7	1.2	6.9	12.7
52°	3994.8	3933.6	3653.1	2990.3	1962.8	930.6	347.5	23.1	1.2	6.9	13.9
53°	3772.0	3684.2	3379.4	2745.6	1753.8	796.7	291.0	19.6	1.2	6.9	12.7
54°	3491.4	3452.2	3102.3	2445.4	1509.0	667.3	239.0	16.2	1.2	6.9	12.7
55°	3227.0	3169.3	2805.6	2138.3	1287.3	547.3	199.7	12.7	1.2	6.9	12.7
56°	2889.9	2803.3	2462.7	1856.6	1062.2	441.0	168.6	10.4	1.2	6.9	12.7
57°	2488.1	2395.7	2126.7	1543.7	833.6	336.0	140.9	8.1	1.2	6.9	12.7
58°	2104.8	2025.1	1736.5	1191.5	628.1	233.2	116.6	5.8	1.2	5.8	12.7
59°	1818.4	1730.7	1444.4	916.7	436.4	172.0	87.7	4.6	1.2	6.9	12.7
60°	1574.8	1461.7	1162.7	710.1	311.7	123.5	64.7	2.3	2.3	6.9	12.7
62.5°	907.5	801.3	555.3	288.6	128.2	63.5	31.2	1.2	2.3	6.9	12.7
65°	229.8	204.4	132.8	62.3	35.8	21.9	11.5	1.2	2.3	5.8	11.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	8.1	8.1	8.1	6.9	5.8	4.6	2.3	1.2	2.3	5.8	11.5
70°	3.5	3.5	3.5	2.3	2.3	1.2	1.2	1.2	2.3	5.8	10.4
72.5°	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	3.5	5.8	9.2
75°	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	3.5	5.8	9.2
77.5°	2.3	2.3	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.6	8.1
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.6	6.9
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.6	5.8
85°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.5	4.6	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	4.6	3.5
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°	58.9	58.9	58.9
2.5°	55.4	55.4	55.4
5°	52.0	52.0	50.8
7.5°	48.5	47.3	47.3
10°	43.9	43.9	43.9
12.5°	40.4	40.4	40.4
15°	36.9	38.1	38.1
17.5°	33.5	35.8	35.8
20°	31.2	33.5	34.6
22.5°	28.9	31.2	32.3
25°	27.7	30.0	31.2
27.5°	25.4	28.9	31.2
30°	24.2	27.7	30.0
31°	24.2	27.7	28.9
32°	23.1	27.7	28.9
33°	23.1	27.7	28.9
34°	23.1	26.6	28.9
35°	21.9	26.6	27.7
36°	21.9	26.6	27.7
37°	21.9	26.6	28.9
38°	21.9	26.6	27.7
39°	20.8	26.6	27.7
40°	20.8	26.6	27.7
41°	20.8	26.6	27.7
42°	20.8	26.6	27.7
43°	20.8	26.6	27.7
44°	20.8	25.4	27.7
45°	20.8	25.4	27.7
46°	20.8	26.6	27.7
47°	20.8	26.6	28.9
48°	20.8	25.4	27.7
49°	19.6	25.4	27.7
50°	19.6	25.4	27.7
51°	19.6	26.6	28.9
52°	19.6	26.6	28.9
53°	19.6	26.6	28.9
54°	19.6	26.6	27.7
55°	19.6	26.6	28.9
56°	19.6	26.6	27.7
57°	19.6	26.6	27.7
58°	19.6	25.4	27.7
59°	19.6	25.4	27.7
60°	19.6	25.4	27.7
62.5°	18.5	25.4	27.7
65°	18.5	24.2	26.6



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
67.5°	17.3	24.2	25.4
70°	16.2	23.1	24.2
72.5°	15.0	21.9	23.1
75°	13.9	19.6	20.8
77.5°	11.5	17.3	19.6
80°	10.4	15.0	16.2
82.5°	8.1	12.7	13.9
85°	5.8	9.2	9.2
87.5°	2.3	4.6	4.6
90°	0.0	0.0	0.0

(END OF REPORT)