

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: P1323832

Luminaire Tested: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

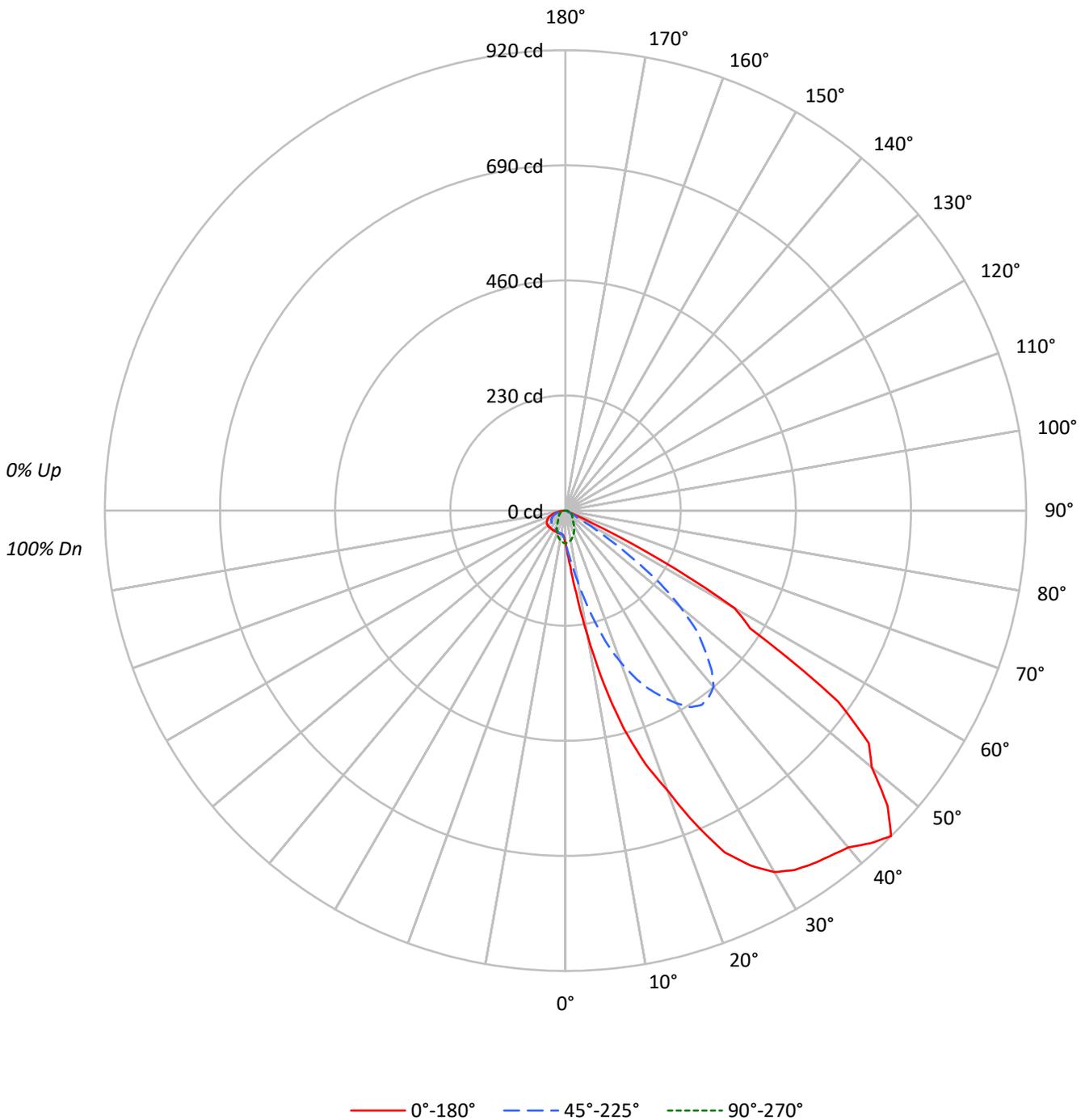
Test Method: LM-79-2019  
Report Number: P1323832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R659030D2WDE010 3LSQCA45R 1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R65 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 667.0 lumens  
Efficiency: N/A  
Efficacy: 45.4 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
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	0
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	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°	135°	180°
0°	11177	11177	11177	11177	11177
5°	19535	15957	10978	8903	8558
10°	44210	25725	10528	8184	8307
15°	80377	41383	9771	8220	8469
20°	108957	59088	8834	8211	8577
25°	143223	74604	7753	8000	8760
30°	165854	88436	6642	7975	9168
35°	181105	99698	5635	8158	9692
40°	197572	103440	4969	8566	10364
45°	223977	95938	4725	9133	11228
50°	213943	80085	4662	9672	12352
55°	199403	44979	4834	10449	13662
60°	134299	9679	4822	11057	14742
65°	20702	2445	4646	11451	16097
70°	2367	2367	4381	11783	17171
75°	2196	2196	3993	11578	17367
80°	1984	2678	3967	10612	17257
85°	1383	2569	3952	10671	15808

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 223977 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.9	1.2
10°-20°	42.4	6.4
20°-30°	99.6	14.9
30°-40°	150.6	22.6
40°-50°	173.1	25.9
50°-60°	137.4	20.6
60°-70°	41.2	6.2
70°-80°	11.2	1.7
80°-90°	3.7	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°	149.9	22.5
0°-40°	300.5	45.0
0°-60°	610.9	91.6
0°-90°	667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	667.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	113	92	64	52	50	15
15°	451	232	55	46	48	130
25°	754	393	41	42	46	344
35°	861	474	27	39	46	541
45°	920	394	19	38	46	683
55°	664	150	16	35	46	547
65°	51	6	11	28	40	114
75°	3	3	6	17	26	4
85°	1	1	2	5	8	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
2.5°	82.3	82.9	82.3	82.3	81.6	80.9	76.2	70.9	64.9	60.2	56.8
5°	113.0	113.7	111.7	111.7	110.3	108.3	92.3	76.9	63.5	56.2	51.5
7.5°	167.2	169.9	166.5	162.5	155.2	153.8	115.0	82.9	62.2	52.2	48.2
10°	252.8	250.8	247.4	239.4	226.7	220.7	147.1	88.9	60.2	49.5	46.8
12.5°	356.5	351.1	347.1	332.4	315.0	305.0	187.3	94.3	57.5	46.8	46.1
15°	450.8	446.7	437.4	423.3	401.9	393.9	232.1	97.6	54.8	44.8	46.1
17.5°	530.3	526.3	521.0	506.9	484.9	472.8	282.2	99.6	51.5	43.5	45.5
20°	594.5	591.9	584.5	573.1	551.1	539.7	322.4	99.6	48.2	42.1	44.8
22.5°	677.5	671.5	662.1	645.4	618.0	600.6	360.5	97.6	44.8	40.8	43.5
25°	753.7	749.7	737.7	717.6	688.2	670.8	392.6	93.6	40.8	38.8	42.1
27.5°	799.2	796.5	785.1	764.4	731.6	718.3	419.3	87.6	36.8	36.8	41.5
30°	834.0	828.6	817.2	797.2	763.7	747.7	444.7	80.3	33.4	34.8	40.1
32.5°	851.4	849.3	839.3	821.9	789.2	771.1	465.5	70.9	29.4	33.4	39.5
35°	861.4	859.4	851.4	834.6	803.9	786.5	474.2	62.2	26.8	32.1	38.8
37.5°	869.4	867.4	857.4	840.7	809.9	791.8	470.2	52.8	24.1	30.8	38.1
40°	878.8	871.4	856.0	839.3	811.2	793.8	460.1	44.1	22.1	30.1	38.1
42.5°	901.5	876.1	852.0	836.6	809.9	789.8	431.4	34.8	20.1	28.8	37.5
45°	919.6	874.8	844.0	832.0	804.5	781.8	393.9	25.4	19.4	28.1	37.5
47.5°	872.1	844.7	830.6	823.9	794.5	769.8	355.1	17.4	18.7	27.4	36.8
50°	798.5	795.2	789.8	790.5	763.7	743.7	298.9	12.0	17.4	26.8	36.1
52.5°	763.1	759.1	749.7	743.0	716.3	698.9	236.7	9.4	16.7	26.1	35.4
55°	664.1	666.8	656.7	660.8	652.7	644.0	149.8	8.7	16.1	24.7	34.8
57.5°	437.4	450.8	474.2	502.3	527.7	545.1	80.9	8.7	14.7	24.1	33.4
60°	389.9	386.6	385.9	391.2	402.6	412.0	28.1	8.0	14.0	22.1	32.1
62.5°	213.3	212.0	232.1	266.2	286.2	288.2	8.0	8.0	12.7	20.7	30.1
65°	50.8	52.8	58.9	73.6	86.9	95.6	6.0	7.4	11.4	19.4	28.1
67.5°	8.0	8.7	8.7	10.7	12.0	12.0	5.4	6.7	10.0	17.4	26.1
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.0	8.7	15.4	23.4
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.7	5.4	7.4	13.4	20.1
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.7	6.0	10.7	17.4
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.3	4.0	5.4	8.7	14.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.3	4.0	6.7	10.7
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.7	3.3	5.4	8.0
85°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0	2.0	3.3	5.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0	2.7
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):**

	157.5°	180°
0°	64.9	64.9
2.5°	54.8	54.2
5°	49.5	49.5
7.5°	47.5	47.5
10°	46.8	47.5
12.5°	46.8	47.5
15°	46.8	47.5
17.5°	46.8	47.5
20°	46.1	46.8
22.5°	45.5	46.1
25°	44.8	46.1
27.5°	44.1	46.1
30°	44.1	46.1
32.5°	44.1	46.1
35°	43.5	46.1
37.5°	43.5	46.1
40°	43.5	46.1
42.5°	43.5	46.1
45°	43.5	46.1
47.5°	43.5	46.1
50°	43.5	46.1
52.5°	42.8	46.1
55°	42.8	45.5
57.5°	41.5	44.1
60°	40.1	42.8
62.5°	38.8	41.5
65°	36.8	39.5
67.5°	34.8	36.8
70°	31.4	34.1
72.5°	28.1	30.1
75°	24.1	26.1
77.5°	20.1	22.1
80°	16.1	17.4
82.5°	11.4	12.7
85°	7.4	8.0
87.5°	3.3	3.3
90°	0.0	0.0

(END OF REPORT)