

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: P1323805

Luminaire Tested: LDSQA3D09R509030D2WDE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323805
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: LDSQA3D09R509030D2WDE010 3LSQCA45R 1MB
Description: 3in Adjustable Dim to Warm LED luminaire with, R50 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

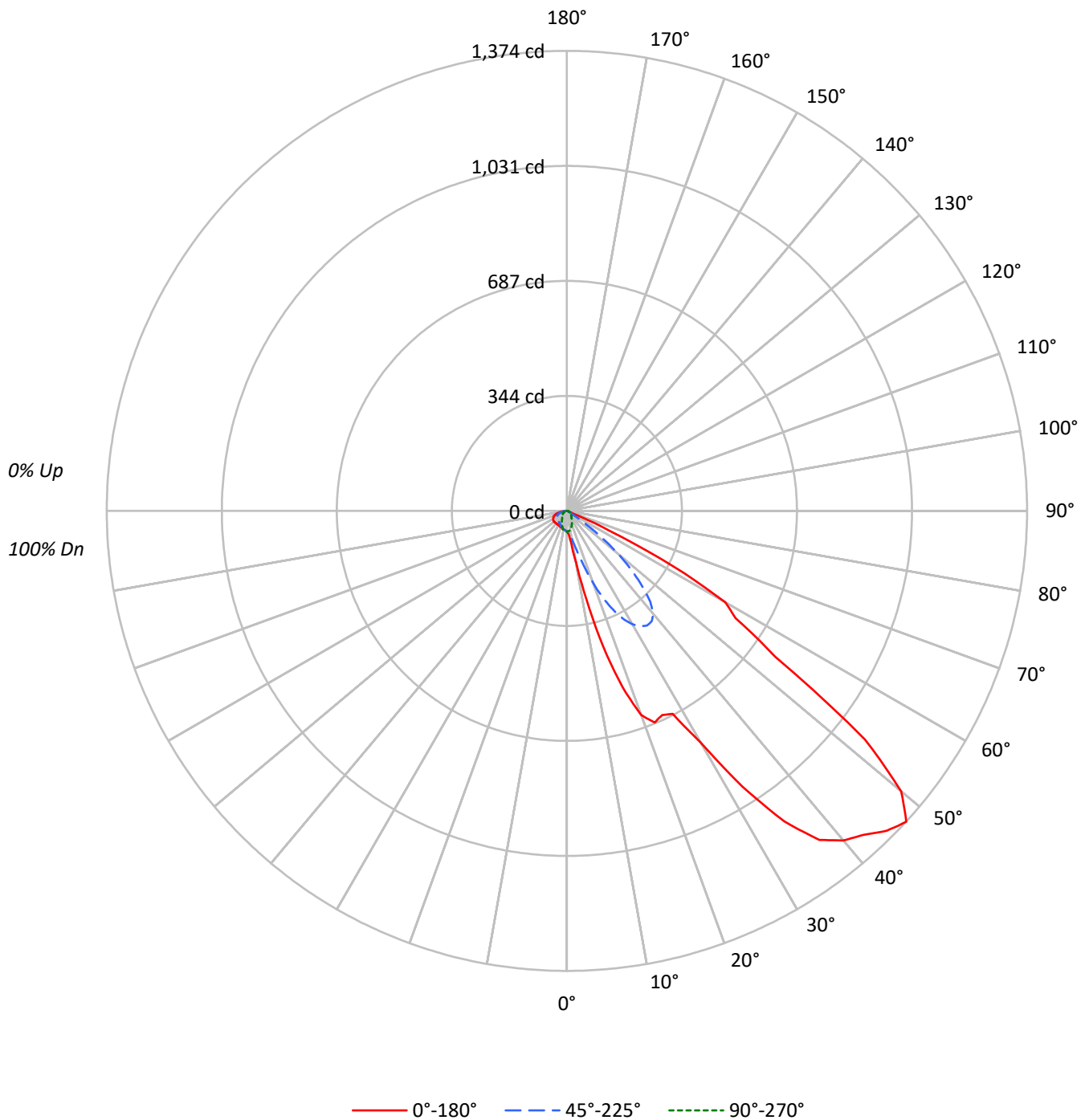
Lumens per Lamp: N/A
Luminaire Lumens: 775.0 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10609	10609	10609	10609	10609
5°	12620	11808	10528	10062	9958
10°	27159	14637	10073	9723	9828
15°	75188	23981	9075	9307	9664
20°	118872	42080	7844	8962	9439
25°	127831	61816	6746	8646	9539
30°	158675	77617	5867	8511	9844
35°	238124	87819	5067	8578	10407
40°	288805	90288	4519	8880	10994
45°	329000	77452	4408	9450	12056
50°	349194	53452	4474	10235	13450
55°	228138	21499	4414	11050	14863
60°	188136	3686	4374	11987	16361
65°	56726	1915	4075	12837	18012
70°	2367	2014	4028	13143	19538
75°	2196	2196	3993	13375	21360
80°	1984	1984	3967	13290	21919
85°	1383	2569	5335	13239	21144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 350339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.8
10°-20°	36.7	4.7
20°-30°	94.3	12.2
30°-40°	169.5	21.9
40°-50°	226.4	29.2
50°-60°	172.4	22.2
60°-70°	52.3	6.8
70°-80°	12.5	1.6
80°-90°	4.5	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°	137.5	17.7
0°-40°	306.9	39.6
0°-60°	705.7	91.1
0°-90°	775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	775.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	73	68	61	58	58	9
15°	422	134	51	52	54	124
25°	673	325	36	46	50	321
35°	1133	418	24	41	50	695
45°	1351	318	18	39	50	1033
55°	760	72	15	37	50	756
65°	139	5	10	32	44	193
75°	3	3	6	20	32	4
85°	1	1	3	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
2.5°	65.6	65.6	65.6	65.6	65.6	65.6	64.9	64.9	64.9	63.6	62.3
5°	73.0	73.6	73.0	73.0	71.6	71.6	70.3	70.3	68.3	64.3	60.9
7.5°	95.7	95.1	94.4	91.7	89.7	85.0	83.0	79.7	73.6	64.3	59.6
10°	155.3	151.3	148.6	142.6	129.9	121.8	111.1	100.4	83.7	64.3	57.6
12.5°	269.8	269.1	261.1	241.0	222.9	198.1	172.0	145.9	103.1	62.9	54.9
15°	421.7	415.7	404.3	380.9	348.8	309.9	263.1	216.9	134.5	60.9	50.9
17.5°	551.6	544.2	535.5	512.1	475.3	426.4	370.2	306.6	177.4	58.2	46.9
20°	648.6	644.0	636.6	617.9	583.0	538.9	475.9	399.0	229.6	54.9	42.8
22.5°	684.1	683.5	684.8	678.1	660.7	625.9	565.6	485.3	281.1	50.9	38.8
25°	672.7	672.1	680.8	689.5	693.5	679.4	633.3	554.9	325.3	47.5	35.5
27.5°	683.5	681.4	677.4	678.8	690.1	698.2	676.8	608.5	363.5	42.8	32.1
30°	797.9	786.5	768.5	737.7	714.9	712.9	703.5	650.7	390.3	38.2	29.5
32.5°	976.7	962.6	929.8	872.9	818.7	777.2	747.7	686.1	409.0	33.5	26.1
35°	1132.6	1122.6	1084.4	1028.2	950.5	872.9	819.3	738.3	417.7	29.5	24.1
37.5°	1238.4	1234.4	1196.9	1136.6	1057.6	965.9	895.0	791.9	415.7	24.8	22.1
40°	1284.6	1272.5	1241.1	1190.2	1110.5	1028.2	953.2	826.0	401.6	20.1	20.1
42.5°	1312.0	1298.6	1264.5	1216.3	1138.0	1050.3	959.9	811.3	368.2	16.1	19.4
45°	1350.8	1336.8	1291.9	1240.4	1161.4	1059.7	933.8	759.1	318.0	12.0	18.1
47.5°	1374.3	1364.9	1331.4	1279.9	1184.2	1046.3	873.6	710.2	262.4	9.4	17.4
50°	1303.3	1293.9	1269.2	1233.7	1169.4	1001.4	820.7	631.2	199.5	7.4	16.7
52.5°	1121.9	1129.9	1134.6	1144.7	1097.8	901.0	741.7	568.3	134.5	6.0	15.4
55°	759.8	771.8	785.2	825.4	880.3	801.9	658.7	491.3	71.6	6.0	14.7
57.5°	597.1	593.1	589.1	586.4	629.2	661.4	579.0	392.9	30.8	6.0	13.4
60°	546.2	534.2	526.1	528.2	549.6	536.9	458.5	256.4	10.7	6.0	12.7
62.5°	358.1	367.5	385.6	416.4	401.6	344.7	266.4	101.7	5.4	6.0	11.4
65°	139.2	134.5	139.2	147.9	127.9	95.1	59.6	18.1	4.7	5.4	10.0
67.5°	18.7	16.7	12.7	8.0	7.4	6.7	5.4	4.7	4.7	5.4	9.4
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.0	4.0	4.7	8.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.7	6.7
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.0	6.0
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	4.7
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	4.0
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.7	3.3
85°	0.7	1.3	0.7	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	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

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	61.6	61.6	61.6	61.6
2.5°	60.9	59.6	59.6	59.6
5°	59.6	58.2	58.2	57.6
7.5°	57.6	56.9	56.9	56.9
10°	56.2	55.6	56.2	56.2
12.5°	53.6	54.2	54.9	54.9
15°	50.9	52.2	53.6	54.2
17.5°	48.2	50.9	52.2	52.9
20°	45.5	48.9	50.9	51.5
22.5°	43.5	46.9	49.5	50.9
25°	40.8	45.5	48.9	50.2
27.5°	38.2	43.5	47.5	49.5
30°	36.1	42.8	47.5	49.5
32.5°	34.1	41.5	46.9	48.9
35°	32.8	40.8	46.9	49.5
37.5°	31.5	40.2	46.9	48.9
40°	30.8	39.5	46.9	48.9
42.5°	30.1	39.5	46.9	49.5
45°	28.8	38.8	46.9	49.5
47.5°	28.1	38.8	46.9	49.5
50°	27.4	38.2	46.9	50.2
52.5°	26.8	37.5	46.9	50.2
55°	25.4	36.8	46.2	49.5
57.5°	24.8	36.1	45.5	48.2
60°	23.4	34.8	44.2	47.5
62.5°	22.1	33.5	42.8	45.5
65°	20.1	31.5	40.8	44.2
67.5°	18.1	28.8	38.8	42.2
70°	16.1	26.1	36.1	38.8
72.5°	14.1	23.4	33.5	35.5
75°	12.0	20.1	29.5	32.1
77.5°	10.0	17.4	24.8	26.8
80°	7.4	13.4	20.1	22.1
82.5°	6.0	10.0	14.7	16.1
85°	4.0	6.7	9.4	10.7
87.5°	2.0	3.3	4.7	5.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)