

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: P1307002

Luminaire Tested: LDSQA3D09R359024DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307002
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: LDSQA3D09R359024DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

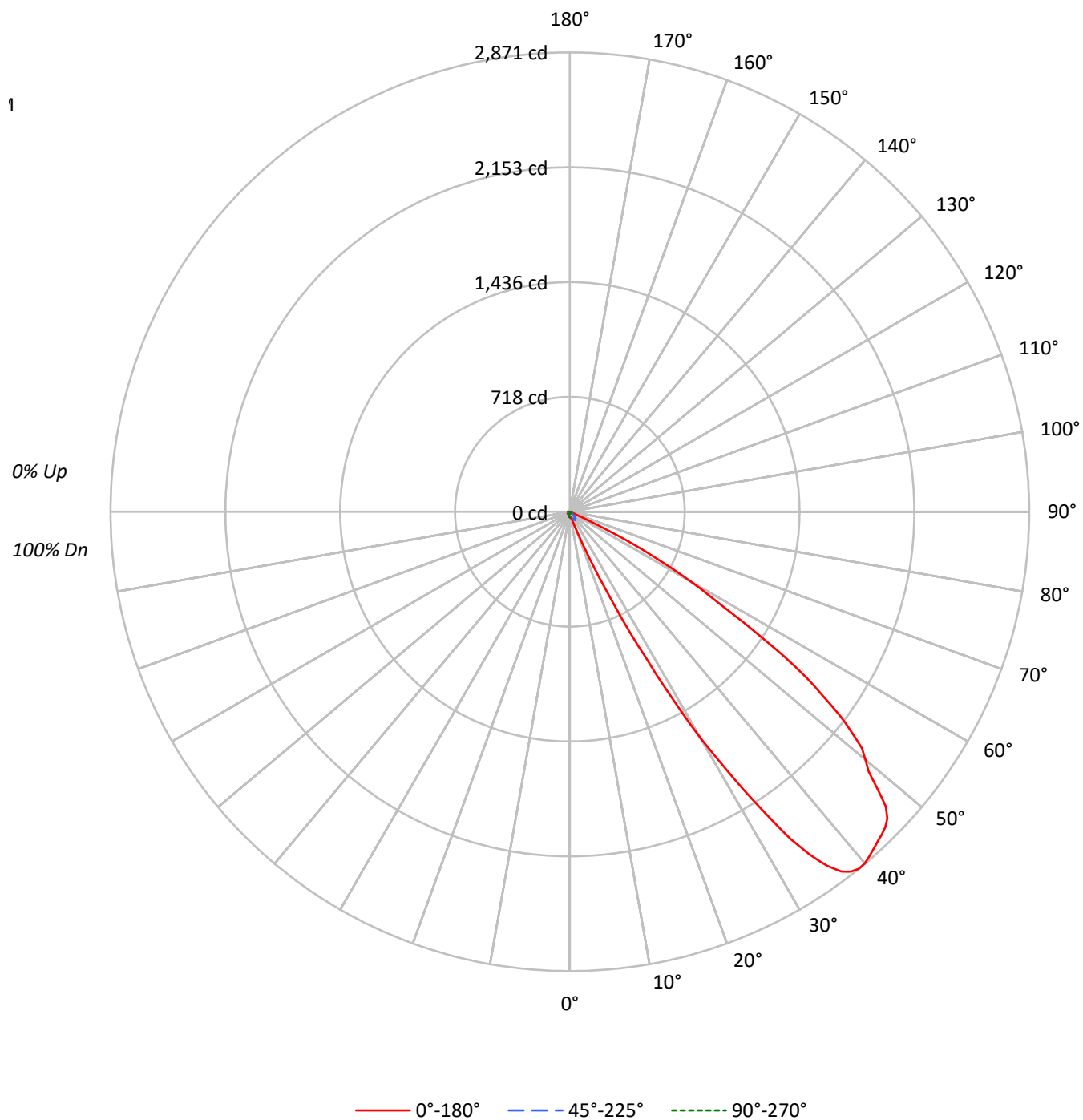
Lumens per Lamp: N/A
Luminaire Lumens: 715.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5666	5666	5666	5666	5666
5°	6137	6034	5584	5014	4910
10°	6436	5876	4967	4285	4285
15°	9200	5759	4030	3691	3798
20°	23074	6158	3189	3189	3556
25°	107080	7848	2451	2945	3306
30°	325503	10659	1929	2705	3341
35°	550127	12341	1619	2586	3259
40°	644853	12185	1304	2608	3485
45°	679117	8646	1096	2825	3775
50°	646437	5198	1045	2947	4153
55°	541671	2132	1171	3303	4834
60°	303250	448	1343	3789	5339
65°	52325	245	1304	4197	6031
70°	957	302	1611	4532	6848
75°	865	399	2129	5124	7719
80°	595	595	2579	5752	8926
85°	0	1186	5138	6323	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 683924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.4
10°-20°	8.4	1.2
20°-30°	43.9	6.1
30°-40°	189.5	26.5
40°-50°	270.3	37.8
50°-60°	167.4	23.4
60°-70°	25.5	3.6
70°-80°	4.7	0.7
80°-90°	2.4	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°	55.3	7.7
0°-40°	244.7	34.2
0°-60°	682.4	95.4
0°-90°	715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	36	35	32	29	28	3
15°	52	32	23	21	21	19
25°	564	41	13	16	17	337
35°	2617	59	8	12	16	1571
45°	2788	36	4	12	16	2107
55°	1804	7	4	11	16	1536
65°	128	1	3	10	15	262
75°	1	1	3	8	12	1
85°	0	1	3	3	5	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°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
2.5°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	32.9	32.3
5°	35.5	35.5	34.9	34.9	34.9	34.9	34.9	34.9	33.6	32.3	30.3
7.5°	36.1	36.1	35.5	35.5	35.5	35.5	34.9	34.2	32.9	30.3	28.4
10°	36.8	36.8	36.8	36.8	36.1	35.5	34.9	33.6	31.6	28.4	26.5
12.5°	41.3	41.3	40.7	39.4	38.1	36.8	35.5	32.9	29.0	25.8	23.9
15°	51.6	51.0	49.7	47.8	45.2	42.0	39.4	32.3	26.5	22.6	21.3
17.5°	72.3	71.0	69.1	62.6	56.8	51.0	45.8	32.3	23.9	20.0	18.7
20°	125.9	126.5	113.0	97.5	84.6	70.4	57.4	33.6	21.3	17.4	16.8
22.5°	262.7	252.4	220.1	182.7	139.4	107.8	81.3	36.8	18.7	14.8	14.8
25°	563.5	524.1	446.0	336.9	237.5	168.5	118.1	41.3	16.8	12.9	13.6
27.5°	1028.8	993.3	836.5	629.9	418.2	254.3	160.1	47.1	14.8	11.0	12.3
30°	1636.8	1538.7	1334.1	1032.7	699.0	389.2	214.9	53.6	12.3	9.7	11.6
31°	1826.6	1781.4	1532.3	1194.7	819.1	462.1	238.2	55.5	11.6	9.7	11.0
32°	2051.9	1971.8	1748.5	1372.2	941.1	527.3	265.9	57.4	11.0	8.4	11.0
33°	2253.2	2175.8	1904.0	1528.4	1064.3	601.6	295.6	58.1	9.7	8.4	10.3
34°	2464.9	2359.1	2089.9	1691.7	1190.8	681.6	322.7	58.7	9.0	7.7	10.3
35°	2616.6	2510.8	2250.0	1820.8	1299.9	752.6	353.7	58.7	8.4	7.7	9.7
36°	2734.1	2641.1	2388.1	1953.7	1408.4	816.5	378.2	58.7	7.1	7.1	9.7
37°	2814.8	2726.3	2481.1	2068.0	1491.0	873.3	400.2	58.7	6.5	7.1	9.7
38°	2854.1	2780.6	2570.8	2151.3	1571.0	917.8	417.6	57.4	5.8	6.5	9.0
39°	2870.9	2810.9	2625.7	2221.6	1631.0	956.5	430.5	56.2	5.2	6.5	9.0
40°	2868.3	2816.1	2656.6	2270.0	1679.4	983.0	437.6	54.2	4.5	5.8	9.0
41°	2853.5	2808.3	2672.8	2311.3	1708.5	1001.1	439.5	52.3	3.9	5.8	8.4
42°	2836.7	2795.4	2677.9	2333.3	1727.2	1006.9	434.4	49.7	3.9	5.2	8.4
43°	2819.3	2781.2	2677.9	2340.4	1731.7	1003.0	426.0	45.2	3.2	5.2	8.4
44°	2805.1	2768.9	2669.5	2338.4	1722.0	988.2	410.5	40.0	2.6	5.2	8.4
45°	2788.3	2752.8	2658.6	2326.2	1703.3	963.0	391.1	35.5	1.9	4.5	8.4
46°	2758.6	2730.9	2639.2	2301.0	1673.6	928.1	366.6	32.3	1.3	4.5	7.7
47°	2701.2	2677.3	2601.8	2263.6	1634.3	886.8	341.4	29.0	1.3	4.5	7.7
48°	2585.6	2585.0	2526.9	2193.9	1571.6	835.2	315.0	25.8	1.3	4.5	7.7
49°	2474.0	2462.4	2390.1	2071.2	1481.9	773.2	287.2	23.2	0.6	4.5	7.7
50°	2412.7	2387.5	2268.7	1926.6	1367.0	687.4	257.5	19.4	0.6	3.9	7.7
51°	2348.8	2312.6	2172.6	1796.3	1230.2	604.8	225.3	15.5	0.6	3.9	7.1
52°	2233.2	2199.0	2042.2	1671.7	1097.2	520.2	194.3	12.9	0.6	3.9	7.7
53°	2108.7	2059.6	1889.2	1534.9	980.4	445.4	162.7	11.0	0.6	3.9	7.1
54°	1951.8	1929.9	1734.3	1367.0	843.6	373.1	133.6	9.0	0.6	3.9	7.1
55°	1804.0	1771.7	1568.4	1195.4	719.7	305.9	111.7	7.1	0.6	3.9	7.1
56°	1615.5	1567.1	1376.7	1037.9	593.8	246.6	94.2	5.8	0.6	3.9	7.1
57°	1390.9	1339.3	1188.9	863.0	466.0	187.8	78.7	4.5	0.6	3.9	7.1
58°	1176.6	1132.1	970.7	666.1	351.1	130.4	65.2	3.2	0.6	3.2	7.1
59°	1016.6	967.5	807.4	512.5	244.0	96.2	49.1	2.6	0.6	3.9	7.1
60°	880.4	817.1	650.0	396.9	174.3	69.1	36.1	1.3	1.3	3.9	7.1
62.5°	507.3	447.9	310.5	161.4	71.6	35.5	17.4	0.6	1.3	3.9	7.1
65°	128.4	114.2	74.2	34.9	20.0	12.3	6.5	0.6	1.3	3.2	6.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	4.5	4.5	4.5	3.9	3.2	2.6	1.3	0.6	1.3	3.2	6.5
70°	1.9	1.9	1.9	1.3	1.3	0.6	0.6	0.6	1.3	3.2	5.8
72.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.9	3.2	5.2
75°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.9	3.2	5.2
77.5°	1.3	1.3	0.6	0.6	0.6	0.6	0.6	0.6	1.9	2.6	4.5
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.9	2.6	3.9
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.9	2.6	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	1.9	2.6	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	2.6	1.9
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°	32.9	32.9	32.9
2.5°	31.0	31.0	31.0
5°	29.0	29.0	28.4
7.5°	27.1	26.5	26.5
10°	24.5	24.5	24.5
12.5°	22.6	22.6	22.6
15°	20.7	21.3	21.3
17.5°	18.7	20.0	20.0
20°	17.4	18.7	19.4
22.5°	16.1	17.4	18.1
25°	15.5	16.8	17.4
27.5°	14.2	16.1	17.4
30°	13.6	15.5	16.8
31°	13.6	15.5	16.1
32°	12.9	15.5	16.1
33°	12.9	15.5	16.1
34°	12.9	14.8	16.1
35°	12.3	14.8	15.5
36°	12.3	14.8	15.5
37°	12.3	14.8	16.1
38°	12.3	14.8	15.5
39°	11.6	14.8	15.5
40°	11.6	14.8	15.5
41°	11.6	14.8	15.5
42°	11.6	14.8	15.5
43°	11.6	14.8	15.5
44°	11.6	14.2	15.5
45°	11.6	14.2	15.5
46°	11.6	14.8	15.5
47°	11.6	14.8	16.1
48°	11.6	14.2	15.5
49°	11.0	14.2	15.5
50°	11.0	14.2	15.5
51°	11.0	14.8	16.1
52°	11.0	14.8	16.1
53°	11.0	14.8	16.1
54°	11.0	14.8	15.5
55°	11.0	14.8	16.1
56°	11.0	14.8	15.5
57°	11.0	14.8	15.5
58°	11.0	14.2	15.5
59°	11.0	14.2	15.5
60°	11.0	14.2	15.5
62.5°	10.3	14.2	15.5
65°	10.3	13.6	14.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	9.7	13.6	14.2
70°	9.0	12.9	13.6
72.5°	8.4	12.3	12.9
75°	7.7	11.0	11.6
77.5°	6.5	9.7	11.0
80°	5.8	8.4	9.0
82.5°	4.5	7.1	7.7
85°	3.2	5.2	5.2
87.5°	1.3	2.6	2.6
90°	0.0	0.0	0.0

(END OF REPORT)