

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: P1324108

Luminaire Tested: LDSQA3D17R559030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R559030D2WDE010 3LSQCA45R 1MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R55 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

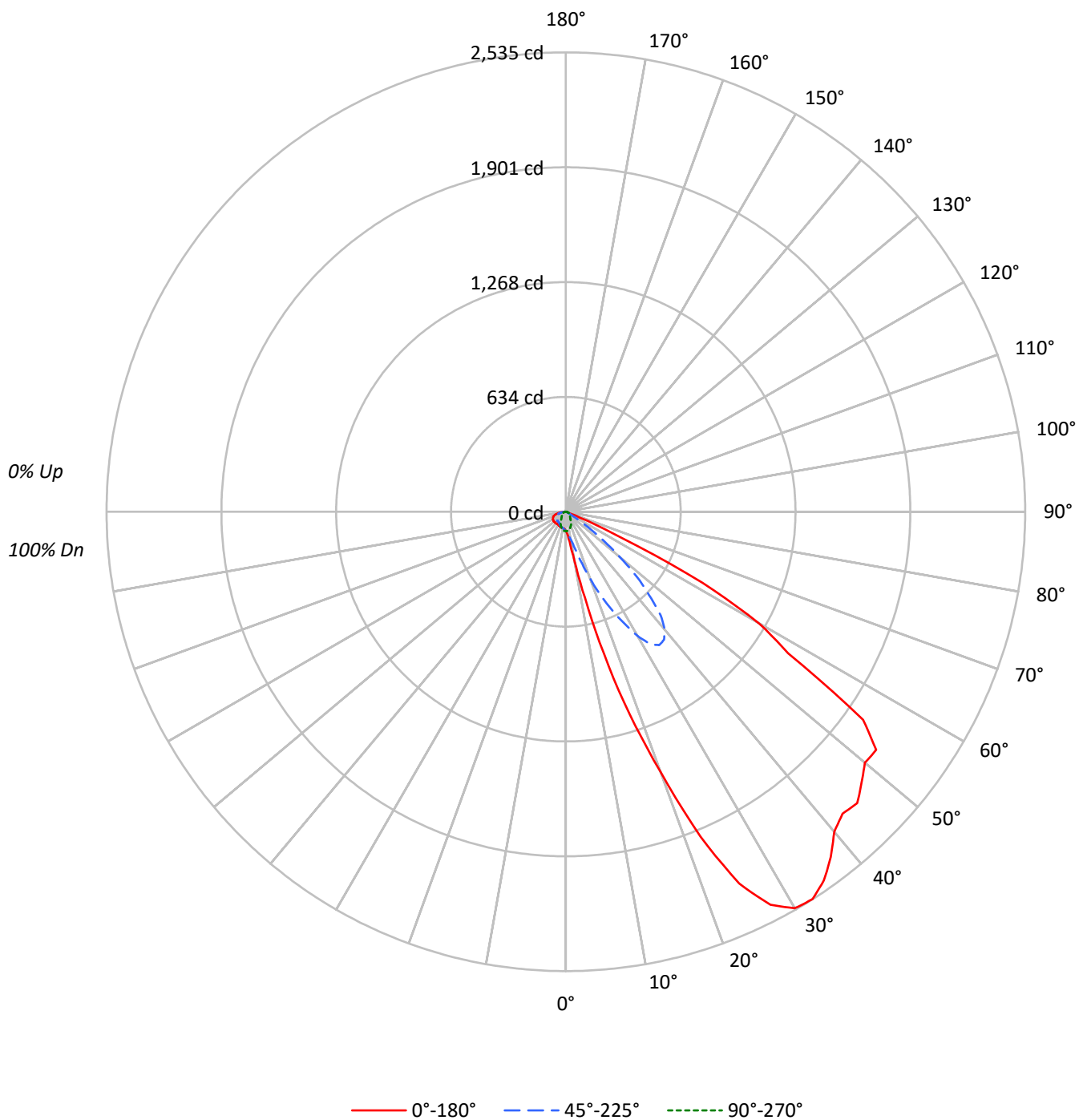
Lumens per Lamp: N/A
Luminaire Lumens: 1630.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.3
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	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	107	104	100	97	99	97	94	95	93	91	92	90	88	86						
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	80	72	67	77	71	65	74	69	64	72	67	63	61						
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51						
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43						
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37						
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32						
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27						
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24						
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18101	18101	18101	18101	18101
5°	23149	21161	18170	16925	16441
10°	47095	26949	17628	16124	16124
15°	144564	41347	16439	15672	16172
20°	279532	72321	14790	15304	16110
25°	430220	112477	12865	14784	16152
30°	502354	157243	10600	14617	16605
35°	522017	188947	8788	14528	17261
40°	518054	190715	8094	15220	18773
45°	553879	157851	7721	16489	20337
50°	577257	104198	7716	17737	22774
55°	601093	45399	7777	19457	25072
60°	424632	10402	7922	21321	28279
65°	138514	3505	7621	22902	31705
70°	4330	3626	7956	24674	36255
75°	3859	3859	6721	25885	40258
80°	2876	4265	7141	25687	42845
85°	2766	5730	8497	25688	42682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 610767 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.7
10°-20°	69.2	4.2
20°-30°	232.0	14.2
30°-40°	381.0	23.4
40°-50°	425.0	26.1
50°-60°	357.7	21.9
60°-70°	121.3	7.4
70°-80°	23.7	1.5
80°-90°	8.9	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°	312.4	19.2
0°-40°	693.4	42.5
0°-60°	1476.0	90.6
0°-90°	1630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1630.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	105	105	105	105	105	
5°	134	122	105	98	95	17
15°	811	232	92	88	91	257
25°	2264	592	68	78	85	1017
35°	2483	899	42	69	82	1542
45°	2274	648	32	68	84	1737
55°	2002	151	26	65	84	1630
65°	340	9	19	56	78	460
75°	6	6	10	39	60	6
85°	1	3	4	13	22	2
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°	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1
2.5°	115.2	115.2	115.2	115.2	115.2	115.2	113.8	109.5	106.6	102.3	100.8
5°	133.9	133.9	133.9	132.5	132.5	129.6	122.4	112.3	105.1	99.4	97.9
7.5°	172.8	171.4	168.5	167.1	162.7	161.3	135.4	115.2	103.7	96.5	95.1
10°	269.3	266.4	262.1	246.3	231.9	221.8	154.1	116.7	100.8	93.6	92.2
12.5°	485.3	479.6	458.0	424.9	384.5	364.4	184.3	118.1	96.5	90.7	90.7
15°	810.8	803.6	763.3	717.2	643.8	603.4	231.9	116.7	92.2	86.4	87.9
17.5°	1170.9	1150.7	1109.0	1048.5	949.1	901.6	302.4	113.8	86.4	83.5	86.4
20°	1525.2	1519.4	1450.3	1368.2	1245.8	1182.4	394.6	109.5	80.7	79.2	83.5
22.5°	1940.0	1915.5	1842.0	1754.2	1585.7	1502.1	494.0	103.7	74.9	74.9	80.7
25°	2264.0	2235.2	2177.6	2075.3	1915.5	1826.2	591.9	96.5	67.7	70.6	77.8
27.5°	2445.5	2412.3	2369.1	2281.3	2157.4	2078.2	689.9	87.9	60.5	66.2	74.9
30°	2526.1	2517.5	2485.8	2421.0	2307.2	2236.6	790.7	77.8	53.3	61.9	73.5
32.5°	2534.8	2539.1	2526.1	2484.3	2397.9	2337.4	865.6	69.1	47.5	59.0	70.6
35°	2482.9	2498.8	2507.4	2490.1	2433.9	2385.0	898.7	59.0	41.8	56.2	69.1
37.5°	2402.3	2431.1	2459.9	2464.2	2429.6	2397.9	890.0	50.4	38.9	54.7	69.1
40°	2304.3	2330.2	2389.3	2426.7	2415.2	2392.2	848.3	41.8	36.0	51.8	67.7
42.5°	2259.7	2265.4	2328.8	2392.2	2389.3	2370.6	774.8	33.1	33.1	51.8	67.7
45°	2274.1	2248.2	2289.9	2363.4	2359.1	2334.6	648.1	25.9	31.7	50.4	67.7
47.5°	2213.6	2177.6	2248.2	2334.6	2318.7	2282.7	535.8	18.7	30.2	49.0	66.2
50°	2154.5	2148.8	2203.5	2246.7	2225.1	2205.0	388.9	14.4	28.8	47.5	66.2
52.5°	2158.9	2148.8	2154.5	2153.1	2109.9	2088.3	266.4	11.5	27.4	46.1	66.2
55°	2001.9	1970.2	1940.0	1948.6	1951.5	1937.1	151.2	10.1	25.9	46.1	64.8
57.5°	1454.6	1446.0	1479.1	1572.7	1646.2	1654.8	73.5	10.1	24.5	44.6	63.4
60°	1232.8	1227.1	1228.5	1255.9	1294.7	1270.3	30.2	10.1	23.0	43.2	61.9
62.5°	849.7	905.9	928.9	992.3	966.4	931.8	11.5	11.5	21.6	40.3	60.5
65°	339.9	338.4	370.1	400.4	391.7	365.8	8.6	10.1	18.7	37.4	56.2
67.5°	79.2	72.0	61.9	53.3	44.6	36.0	8.6	10.1	17.3	34.6	53.3
70°	8.6	8.6	8.6	8.6	8.6	7.2	7.2	10.1	15.8	31.7	49.0
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.6	13.0	27.4	44.6
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	7.2	10.1	23.0	38.9
77.5°	4.3	4.3	4.3	5.8	4.3	5.8	5.8	7.2	8.6	18.7	33.1
80°	2.9	2.9	4.3	4.3	4.3	4.3	4.3	5.8	7.2	15.8	25.9
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	4.3	4.3	5.8	11.5	18.7
85°	1.4	1.4	1.4	1.4	1.4	2.9	2.9	4.3	4.3	8.6	13.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.9	2.9	4.3	4.3	5.8
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°	105.1	105.1
2.5°	99.4	99.4
5°	96.5	95.1
7.5°	93.6	93.6
10°	92.2	92.2
12.5°	90.7	92.2
15°	90.7	90.7
17.5°	87.9	89.3
20°	86.4	87.9
22.5°	85.0	86.4
25°	83.5	85.0
27.5°	82.1	83.5
30°	80.7	83.5
32.5°	79.2	82.1
35°	79.2	82.1
37.5°	79.2	83.5
40°	79.2	83.5
42.5°	79.2	83.5
45°	79.2	83.5
47.5°	79.2	83.5
50°	79.2	85.0
52.5°	79.2	85.0
55°	79.2	83.5
57.5°	77.8	83.5
60°	77.8	82.1
62.5°	76.3	80.7
65°	73.5	77.8
67.5°	70.6	76.3
70°	66.2	72.0
72.5°	61.9	66.2
75°	56.2	60.5
77.5°	49.0	51.8
80°	38.9	43.2
82.5°	30.2	33.1
85°	20.2	21.6
87.5°	8.6	10.1
90°	0.0	0.0

(END OF REPORT)