

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: P1309438

Luminaire Tested: LDSQA3D17R459030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R459030DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

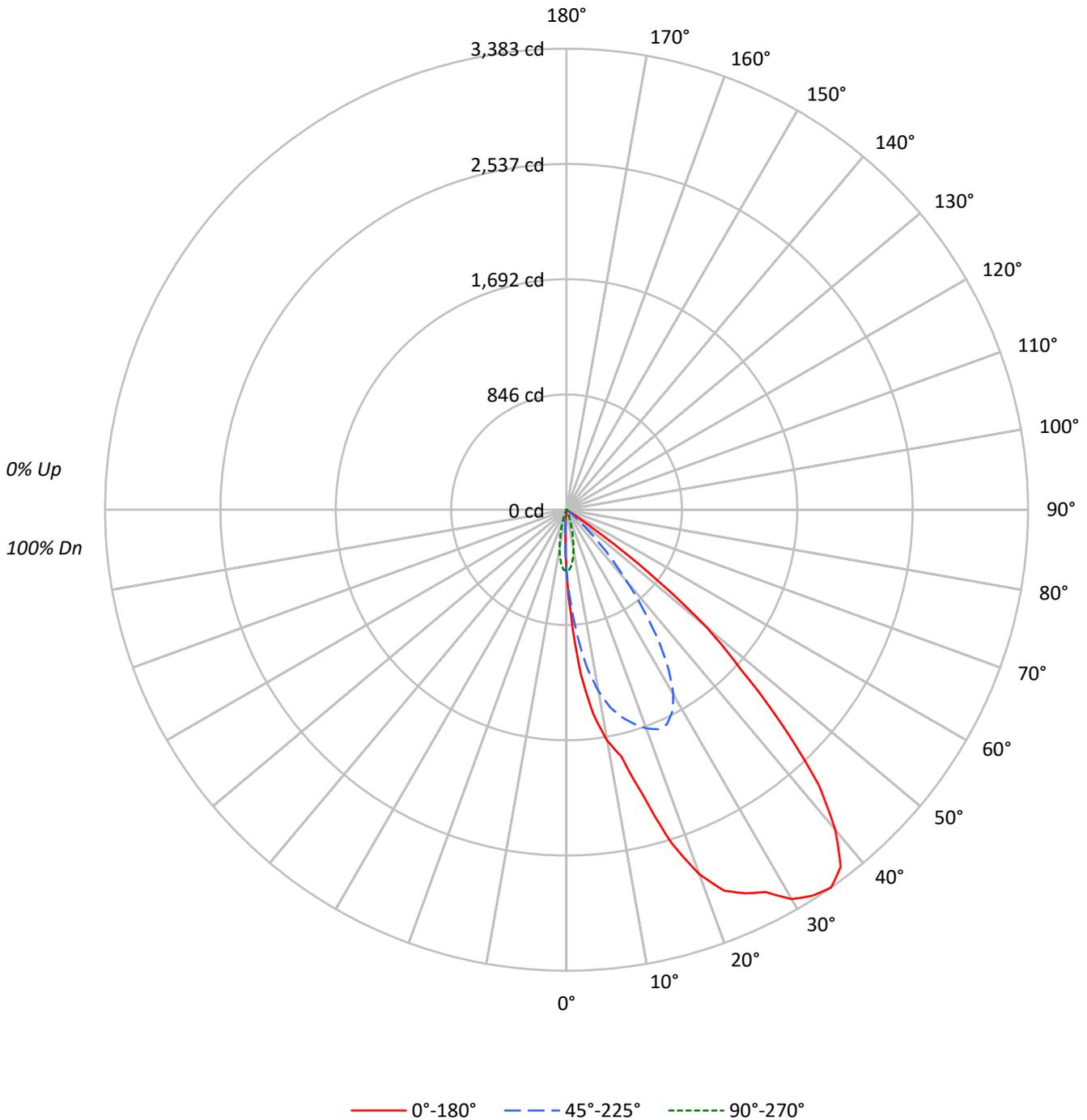
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1434.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
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 (A_{in}): 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				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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	76708	76708	76708	76708	76708
5°	209393	161107	70985	14245	5342
10°	300740	236350	51327	1347	1119
15°	387174	281140	27315	464	0
20°	521822	312815	10373	0	0
25°	590223	330456	2698	0	0
30°	656058	311523	259	0	0
35°	711196	248426	0	0	0
40°	689300	155981	0	0	0
45°	546426	74310	0	0	0
50°	357634	9324	0	0	0
55°	61463	0	0	0	0
60°	0	0	448	0	0
65°	0	530	530	0	0
70°	0	655	1309	0	0
75°	0	865	1730	0	0
80°	0	1289	2579	1289	0
85°	0	2569	5138	2569	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 546426 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	3.7
10°-20°	204.3	14.2
20°-30°	382.4	26.7
30°-40°	446.4	31.1
40°-50°	291.1	20.3
50°-60°	54.0	3.8
60°-70°	0.5	0.0
70°-80°	1.1	0.1
80°-90°	1.2	0.1
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°	639.7	44.6
0°-40°	1086.1	75.7
0°-60°	1431.3	99.8
0°-90°	1434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1434.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	445	445	445	445	445	
5°	1211	932	411	82	31	130
15°	2172	1577	153	3	0	647
25°	3106	1739	14	0	0	1436
35°	3383	1182	0	0	0	2075
45°	2244	305	0	0	0	1706
55°	205	0	0	0	0	356
65°	0	1	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4
2.5°	785.2	791.6	778.7	773.6	756.9	760.7	732.4	720.8	702.8	673.2	659.0
5°	1211.2	1199.6	1189.3	1167.5	1154.6	1119.8	1081.2	1037.5	984.7	931.9	871.4
7.5°	1515.0	1506.0	1502.1	1484.1	1458.4	1422.3	1372.1	1316.8	1248.6	1177.8	1086.4
10°	1719.7	1710.7	1695.2	1677.2	1656.6	1627.0	1578.1	1517.6	1442.9	1351.5	1244.7
12.5°	1853.5	1852.2	1826.5	1805.9	1780.2	1754.4	1704.2	1655.3	1581.9	1488.0	1367.0
15°	2171.5	2150.9	2117.4	2059.5	1987.4	1920.5	1839.4	1762.1	1682.3	1576.8	1441.6
17.5°	2567.9	2544.7	2488.1	2414.7	2298.9	2171.5	2032.4	1910.2	1790.5	1647.6	1488.0
20°	2847.2	2838.2	2790.6	2705.6	2582.1	2413.5	2230.7	2058.2	1889.6	1706.8	1509.9
22.5°	3026.1	3021.0	3001.7	2943.8	2817.6	2628.4	2392.9	2161.2	1957.8	1744.1	1503.4
25°	3106.0	3112.4	3115.0	3086.6	2985.0	2791.9	2512.6	2239.7	1996.4	1739.0	1454.5
27.5°	3162.6	3162.6	3172.9	3160.0	3057.0	2853.7	2558.9	2266.7	1983.5	1675.9	1351.5
30°	3299.0	3296.5	3302.9	3268.1	3125.3	2873.0	2538.3	2222.9	1910.2	1566.5	1203.5
32.5°	3358.2	3360.8	3359.5	3304.2	3138.1	2860.1	2488.1	2139.3	1775.0	1395.3	1007.9
35°	3382.7	3371.1	3323.5	3197.3	2987.5	2688.9	2346.5	1997.7	1585.8	1181.6	795.5
37.5°	3301.6	3268.1	3162.6	2990.1	2734.0	2446.9	2112.3	1744.1	1334.8	926.8	598.5
40°	3066.0	3022.3	2889.7	2681.2	2446.9	2188.2	1835.5	1446.8	1043.9	693.8	419.6
42.5°	2732.7	2682.5	2539.6	2358.1	2144.4	1872.8	1521.4	1132.7	764.6	478.8	266.4
45°	2243.5	2215.2	2132.8	1979.7	1769.9	1488.0	1166.2	826.4	529.0	305.1	136.4
47.5°	1735.1	1699.1	1639.9	1534.3	1359.3	1091.5	816.1	561.2	339.8	150.6	28.3
50°	1334.8	1292.3	1220.2	1103.1	920.3	728.5	529.0	350.1	172.5	34.8	1.3
52.5°	768.4	777.5	742.7	668.0	566.4	436.4	306.3	176.3	38.6	1.3	0.0
55°	204.7	221.4	216.2	233.0	204.7	172.5	127.4	33.5	2.6	0.0	0.0
57.5°	0.0	0.0	1.3	2.6	7.7	11.6	3.9	1.3	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4
2.5°	626.9	599.8	566.4	442.8	333.4	239.4	186.6	172.5
5°	813.5	747.8	662.9	410.6	205.9	82.4	37.3	30.9
7.5°	989.8	893.3	740.1	359.1	104.3	20.6	10.3	9.0
10°	1126.3	996.3	796.8	293.5	38.6	7.7	6.4	6.4
12.5°	1220.2	1061.9	817.4	222.7	14.2	3.9	3.9	2.6
15°	1274.3	1087.7	798.0	153.2	5.1	2.6	0.0	0.0
17.5°	1291.0	1077.4	746.6	96.5	1.3	0.0	0.0	0.0
20°	1276.9	1027.2	665.5	56.6	0.0	0.0	0.0	0.0
22.5°	1230.5	948.6	567.6	30.9	0.0	0.0	0.0	0.0
25°	1144.3	838.0	453.1	14.2	0.0	0.0	0.0	0.0
27.5°	1004.0	695.1	341.1	5.1	0.0	0.0	0.0	0.0
30°	844.4	541.9	242.0	1.3	0.0	0.0	0.0	0.0
32.5°	659.0	399.0	155.7	0.0	0.0	0.0	0.0	0.0
35°	495.6	279.3	92.7	0.0	0.0	0.0	0.0	0.0
37.5°	345.0	176.3	48.9	0.0	0.0	0.0	0.0	0.0
40°	215.0	95.3	16.7	0.0	0.0	0.0	0.0	0.0
42.5°	119.7	33.5	1.3	0.0	0.0	0.0	0.0	0.0
45°	28.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
60°	0.0	1.3	1.3	1.3	0.0	0.0	0.0	0.0
62.5°	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
65°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
67.5°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
70°	1.3	1.3	1.3	2.6	1.3	0.0	0.0	0.0
72.5°	1.3	1.3	2.6	2.6	1.3	0.0	0.0	0.0
75°	1.3	1.3	2.6	2.6	1.3	0.0	0.0	0.0
77.5°	1.3	2.6	2.6	2.6	1.3	1.3	0.0	0.0
80°	1.3	2.6	2.6	2.6	2.6	1.3	0.0	0.0
82.5°	1.3	2.6	2.6	2.6	2.6	1.3	0.0	0.0
85°	1.3	2.6	2.6	2.6	1.3	1.3	0.0	0.0
87.5°	1.3	2.6	2.6	2.6	2.6	1.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)