

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: P1316931

Luminaire Tested: LDSQA3D20R459740D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316931
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: LDSQA3D20R459740D010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

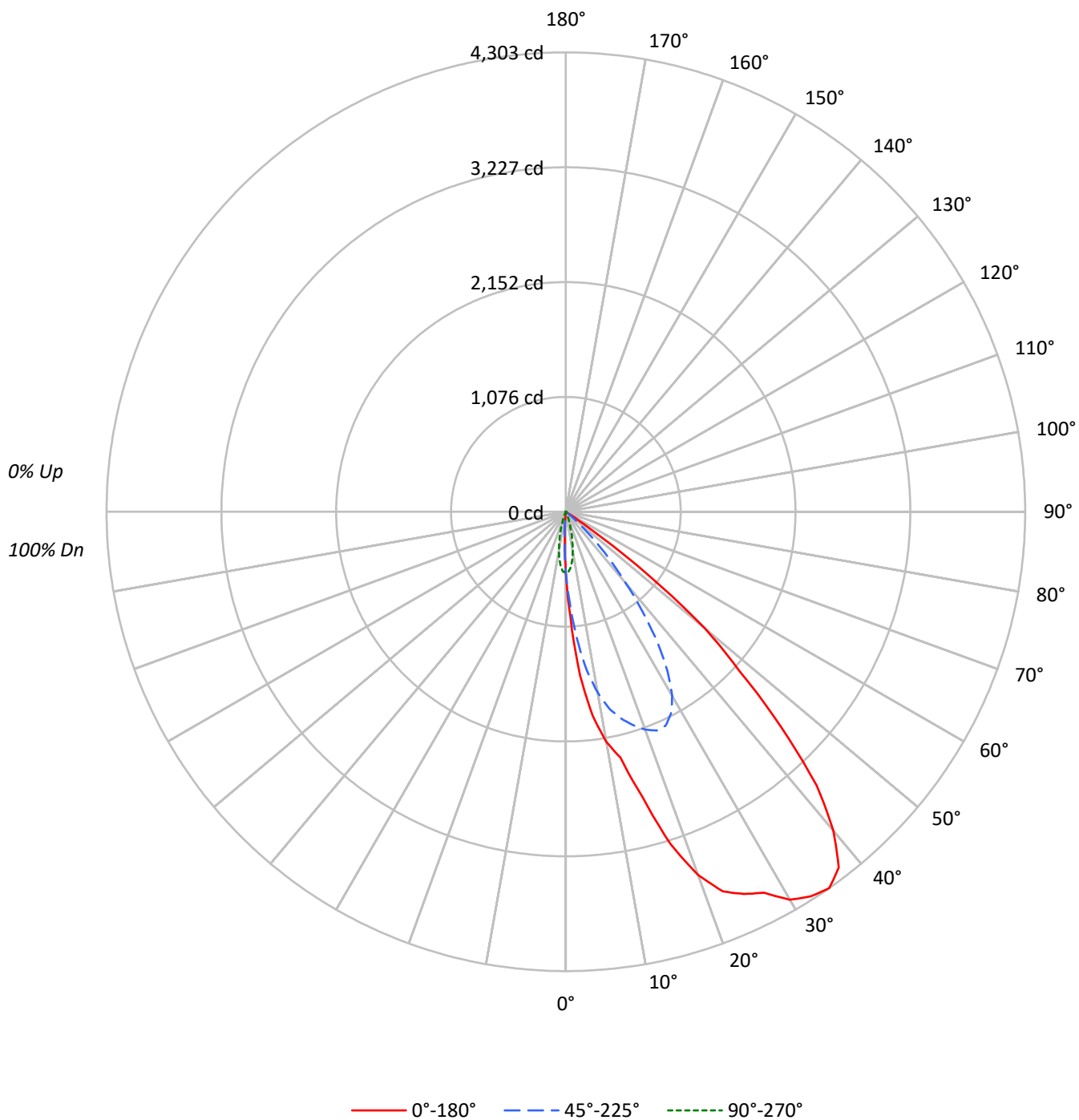
Lumens per Lamp: N/A
Luminaire Lumens: 1824.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	97564	97564	97564	97564	97564
5°	266340	204933	90295	18118	6794
10°	382531	300635	65282	1714	1434
15°	492459	357594	34732	588	0
20°	663751	397891	13196	0	0
25°	750738	420320	3420	0	0
30°	834500	396240	318	0	0
35°	904621	315998	0	0	0
40°	876778	198404	0	0	0
45°	695046	94501	0	0	0
50°	454893	11843	0	0	0
55°	78158	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	1662	0	0
75°	0	1065	2196	0	0
80°	0	1587	3273	1587	0
85°	0	3162	6521	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 695046 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.7
10°-20°	259.9	14.2
20°-30°	486.4	26.7
30°-40°	567.8	31.1
40°-50°	370.3	20.3
50°-60°	68.7	3.8
60°-70°	0.6	0.0
70°-80°	1.3	0.1
80°-90°	1.5	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°	813.7	44.6
0°-40°	1381.5	75.7
0°-60°	1820.5	99.8
0°-90°	1824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	566	566	566	566	566	
5°	1541	1185	522	105	39	165
15°	2762	2006	195	3	0	823
25°	3951	2212	18	0	0	1827
35°	4303	1503	0	0	0	2639
45°	2854	388	0	0	0	2170
55°	260	0	0	0	0	452
65°	0	2	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	2	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°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	998.7	1006.9	990.5	984.0	962.7	967.6	931.6	916.9	893.9	856.3	838.3
5°	1540.6	1525.9	1512.8	1485.0	1468.6	1424.4	1375.3	1319.6	1252.5	1185.4	1108.4
7.5°	1927.0	1915.6	1910.7	1887.7	1855.0	1809.2	1745.3	1674.9	1588.1	1498.1	1381.8
10°	2187.4	2175.9	2156.2	2133.3	2107.1	2069.5	2007.3	1930.3	1835.3	1719.1	1583.2
12.5°	2357.6	2356.0	2323.2	2297.1	2264.3	2231.6	2167.7	2105.5	2012.2	1892.7	1738.8
15°	2762.0	2735.8	2693.3	2619.6	2527.9	2442.8	2339.6	2241.4	2139.9	2005.6	1833.7
17.5°	3266.3	3236.8	3164.8	3071.5	2924.1	2762.0	2585.2	2429.7	2277.4	2095.7	1892.7
20°	3621.6	3610.1	3549.5	3441.5	3284.3	3069.8	2837.3	2618.0	2403.5	2171.0	1920.5
22.5°	3849.2	3842.6	3818.0	3744.4	3583.9	3343.2	3043.6	2748.9	2490.2	2218.5	1912.3
25°	3950.7	3958.9	3962.1	3926.1	3796.8	3551.2	3195.9	2848.8	2539.4	2211.9	1850.1
27.5°	4022.7	4022.7	4035.8	4019.4	3888.5	3629.8	3254.8	2883.2	2523.0	2131.7	1719.1
30°	4196.3	4193.0	4201.2	4157.0	3975.2	3654.3	3228.6	2827.5	2429.7	1992.5	1530.8
32.5°	4271.6	4274.8	4273.2	4202.8	3991.6	3638.0	3164.8	2721.1	2257.8	1774.8	1282.0
35°	4302.7	4287.9	4227.4	4066.9	3800.0	3420.2	2984.7	2541.0	2017.1	1503.0	1011.8
37.5°	4199.5	4157.0	4022.7	3803.3	3477.5	3112.4	2686.7	2218.5	1697.8	1178.8	761.3
40°	3899.9	3844.2	3675.6	3410.4	3112.4	2783.3	2334.7	1840.3	1327.8	882.5	533.7
42.5°	3475.9	3412.0	3230.3	2999.4	2727.6	2382.2	1935.2	1440.8	972.5	609.1	338.9
45°	2853.7	2817.7	2712.9	2518.1	2251.2	1892.7	1483.3	1051.1	672.9	388.0	173.5
47.5°	2207.0	2161.2	2085.8	1951.6	1728.9	1388.4	1038.0	713.8	432.2	191.6	36.0
50°	1697.8	1643.8	1552.1	1403.1	1170.6	926.7	672.9	445.3	219.4	44.2	1.6
52.5°	977.4	988.9	944.7	849.7	720.4	555.0	389.7	224.3	49.1	1.6	0.0
55°	260.3	281.6	275.1	296.3	260.3	219.4	162.1	42.6	3.3	0.0	0.0
57.5°	0.0	0.0	1.6	3.3	9.8	14.7	4.9	1.6	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	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	797.3	763.0	720.4	563.2	424.0	304.5	237.4	219.4
5°	1034.7	951.2	843.2	522.3	262.0	104.8	47.5	39.3
7.5°	1259.0	1136.2	941.4	456.8	132.6	26.2	13.1	11.5
10°	1432.6	1267.2	1013.5	373.3	49.1	9.8	8.2	8.2
12.5°	1552.1	1350.7	1039.6	283.2	18.0	4.9	4.9	3.3
15°	1620.9	1383.5	1015.1	194.8	6.5	3.3	0.0	0.0
17.5°	1642.2	1370.4	949.6	122.8	1.6	0.0	0.0	0.0
20°	1624.1	1306.5	846.5	72.0	0.0	0.0	0.0	0.0
22.5°	1565.2	1206.6	722.0	39.3	0.0	0.0	0.0	0.0
25°	1455.5	1065.8	576.3	18.0	0.0	0.0	0.0	0.0
27.5°	1277.0	884.1	433.9	6.5	0.0	0.0	0.0	0.0
30°	1074.0	689.3	307.8	1.6	0.0	0.0	0.0	0.0
32.5°	838.3	507.5	198.1	0.0	0.0	0.0	0.0	0.0
35°	630.3	355.3	117.9	0.0	0.0	0.0	0.0	0.0
37.5°	438.8	224.3	62.2	0.0	0.0	0.0	0.0	0.0
40°	273.4	121.2	21.3	0.0	0.0	0.0	0.0	0.0
42.5°	152.3	42.6	1.6	0.0	0.0	0.0	0.0	0.0
45°	36.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.6	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	1.6	0.0	0.0	0.0	0.0
60°	0.0	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
65°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
67.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
70°	1.6	1.6	1.6	3.3	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	3.3	3.3	1.6	0.0	0.0	0.0
75°	1.6	1.6	3.3	3.3	1.6	0.0	0.0	0.0
77.5°	1.6	3.3	3.3	3.3	1.6	1.6	0.0	0.0
80°	1.6	3.3	3.3	3.3	3.3	1.6	0.0	0.0
82.5°	1.6	3.3	3.3	3.3	3.3	1.6	0.0	0.0
85°	1.6	3.3	3.3	3.3	1.6	1.6	0.0	0.0
87.5°	1.6	3.3	3.3	3.3	3.3	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)