

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: P1315667

Luminaire Tested: LDSQA3D13R509735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

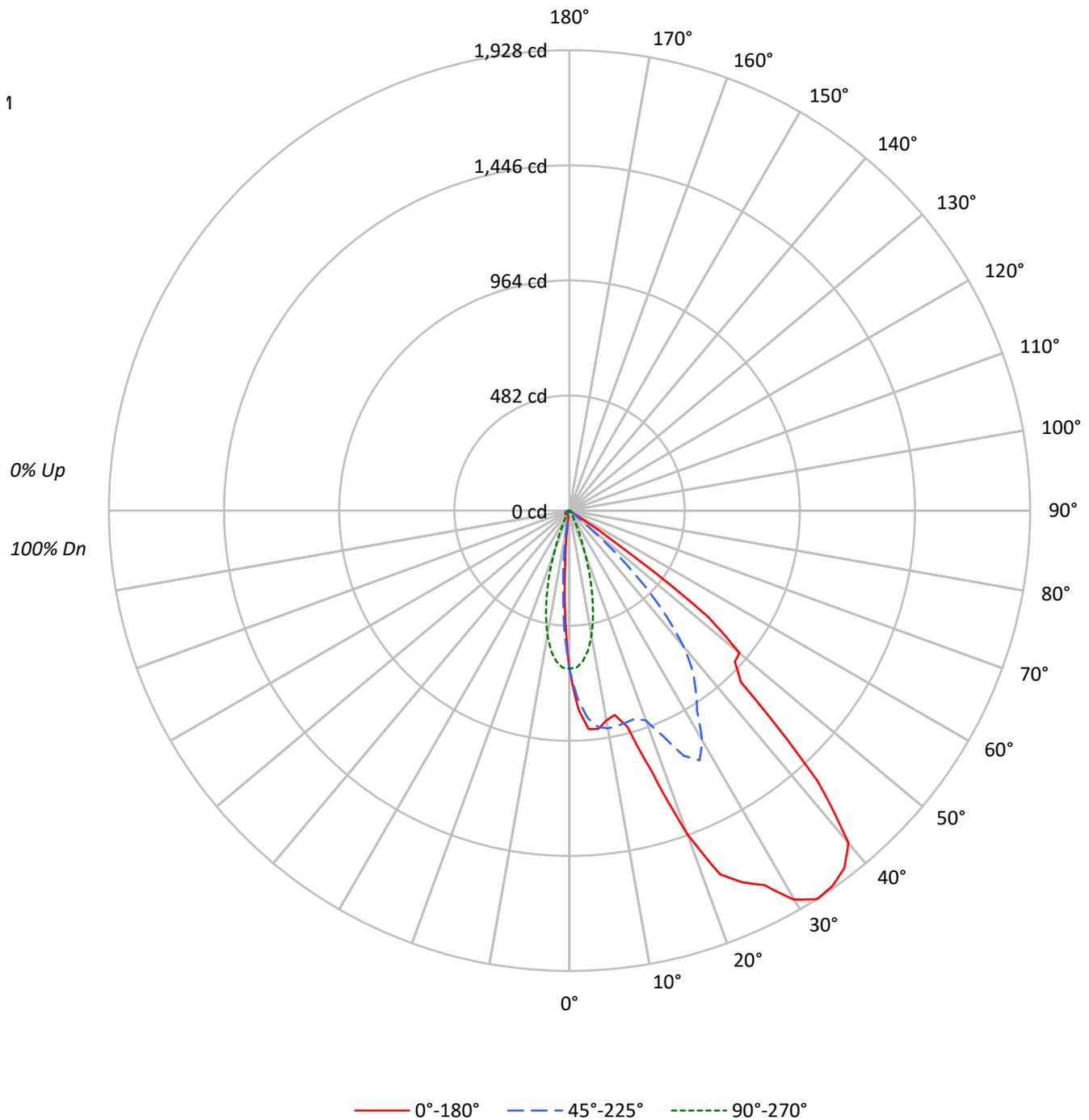
Test Method: LM-79-2019  
Report Number: P1315667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R509735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1028.9 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.6  
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	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	113942	113942	113942	113942	113942
5°	158860	150717	109520	52642	34161
10°	155940	161973	92546	11087	4757
15°	167244	163678	65435	3869	3709
20°	264082	171399	34547	3317	3482
25°	326333	215262	13777	3097	3439
30°	374146	220781	5588	3063	3599
35°	403355	193783	2481	3238	3995
40°	408297	166862	1844	3665	4474
45°	246775	108165	1754	3970	5066
50°	248640	18702	1929	4608	5814
55°	73474	1081	2162	5164	6516
60°	1240	1240	2170	5614	7164
65°	1100	1100	2201	5909	7743
70°	1360	1360	2266	6395	8661
75°	1198	1198	2396	6654	9050
80°	893	1785	2678	6248	9918
85°	1778	3557	3557	7114	8892

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 281872 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	5.2
10°-20°	132.8	12.9
20°-30°	248.8	24.2
30°-40°	297.5	28.9
40°-50°	213.2	20.7
50°-60°	65.7	6.4
60°-70°	8.6	0.8
70°-80°	6.2	0.6
80°-90°	2.5	0.2
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°	435.2	42.3
0°-40°	732.7	71.2
0°-60°	1011.6	98.3
0°-90°	1028.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	662	662	662	662	662	
5°	919	872	634	304	198	85
15°	938	918	367	22	21	300
25°	1717	1133	72	16	18	791
35°	1918	922	12	15	19	1190
45°	1013	444	7	16	21	931
55°	245	4	7	17	22	315
65°	3	3	5	14	19	3
75°	2	2	4	10	14	2
85°	1	2	2	4	4	1
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°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	827.4	829.2	831.9	824.7	820.2	816.5	810.2	808.4	793.0	786.6	780.3
5°	918.9	917.1	918.9	916.2	914.4	909.0	903.5	894.5	884.5	871.8	857.3
7.5°	921.7	919.8	923.5	923.5	927.1	927.1	927.1	928.0	922.6	913.5	900.8
10°	891.7	891.7	895.4	893.6	899.9	902.6	909.0	919.8	925.3	926.2	922.6
12.5°	876.3	876.3	877.2	873.6	875.4	878.2	885.4	898.1	910.8	923.5	930.7
15°	938.0	939.8	927.1	909.0	895.4	880.9	876.3	884.5	898.1	918.0	934.3
17.5°	1147.3	1150.0	1136.4	1092.9	1051.2	991.4	938.0	911.7	897.2	913.5	935.2
20°	1440.9	1431.0	1407.4	1361.2	1300.5	1208.0	1124.7	1040.4	959.7	935.2	942.5
22.5°	1648.5	1644.8	1625.8	1574.1	1521.6	1435.5	1329.5	1211.7	1094.7	1020.4	981.5
25°	1717.3	1714.6	1697.4	1666.6	1637.6	1572.3	1477.2	1358.5	1236.1	1132.8	1034.9
27.5°	1769.0	1765.4	1738.2	1703.7	1673.8	1607.7	1520.7	1431.0	1318.6	1179.0	1028.6
30°	1881.4	1871.4	1833.3	1771.7	1714.6	1623.1	1527.0	1415.6	1263.3	1110.2	963.3
32.5°	1928.5	1923.1	1890.4	1840.6	1778.1	1658.4	1512.5	1325.8	1125.6	993.2	886.3
35°	1918.5	1910.4	1876.8	1819.7	1743.6	1628.5	1433.7	1177.2	1014.1	921.7	801.1
37.5°	1888.6	1876.8	1837.0	1769.9	1677.5	1527.0	1272.4	1056.7	951.6	847.3	685.1
40°	1816.1	1797.1	1750.9	1681.1	1588.6	1391.1	1125.6	984.2	886.3	742.2	555.5
42.5°	1538.8	1528.8	1551.5	1539.7	1458.1	1225.2	1021.3	918.0	783.0	599.9	402.4
45°	1013.2	1030.4	1071.2	1141.0	1157.3	1054.0	936.2	809.3	644.3	444.1	232.0
47.5°	938.0	934.3	944.3	957.9	960.6	917.1	810.2	668.8	478.5	253.7	64.3
50°	928.0	922.6	914.4	898.1	863.7	779.4	657.9	487.6	276.4	69.8	4.5
52.5°	733.2	727.7	727.7	704.2	659.7	578.2	454.0	268.2	77.0	4.5	3.6
55°	244.7	261.0	258.3	257.4	277.3	255.6	195.7	68.9	6.3	3.6	3.6
57.5°	4.5	4.5	4.5	8.2	12.7	18.1	10.9	5.4	3.6	3.6	3.6
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6
67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7
77.5°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	765.8	753.1	728.6	658.8	581.8	493.9	434.1	426.8
5°	834.7	815.6	775.7	633.5	457.7	304.5	226.6	197.6
7.5°	880.0	854.6	805.7	591.8	333.5	160.4	86.1	68.9
10°	907.2	883.6	821.1	529.2	212.1	63.4	29.0	27.2
12.5°	921.7	899.0	826.5	454.0	119.6	29.0	22.7	22.7
15°	931.6	907.2	818.3	367.0	59.8	21.7	20.8	20.8
17.5°	936.2	906.2	794.8	276.4	31.7	19.9	19.9	19.9
20°	938.9	896.3	751.3	188.5	21.7	18.1	19.0	19.0
22.5°	941.6	871.8	694.2	119.6	17.2	17.2	18.1	18.1
25°	936.2	829.2	613.5	72.5	15.4	16.3	17.2	18.1
27.5°	897.2	764.9	515.7	44.4	13.6	15.4	17.2	18.1
30°	830.1	670.6	402.4	28.1	12.7	15.4	17.2	18.1
32.5°	743.1	562.8	287.3	17.2	12.7	15.4	17.2	18.1
35°	626.2	430.5	186.7	11.8	12.7	15.4	18.1	19.0
37.5°	494.8	300.9	100.6	9.1	12.7	15.4	18.1	19.0
40°	356.2	180.3	36.2	8.2	11.8	16.3	19.0	19.9
42.5°	208.4	67.1	6.3	7.2	11.8	16.3	19.0	19.9
45°	59.8	7.2	3.6	7.2	11.8	16.3	19.9	20.8
47.5°	4.5	2.7	3.6	7.2	11.8	16.3	19.9	21.7
50°	2.7	2.7	2.7	7.2	11.8	17.2	20.8	21.7
52.5°	3.6	3.6	3.6	7.2	11.8	17.2	20.8	21.7
55°	3.6	3.6	3.6	7.2	11.8	17.2	20.8	21.7
57.5°	3.6	3.6	3.6	7.2	11.8	16.3	20.8	21.7
60°	3.6	3.6	3.6	6.3	10.9	16.3	19.9	20.8
62.5°	3.6	3.6	3.6	6.3	10.9	15.4	19.9	19.9
65°	3.6	3.6	3.6	5.4	10.0	14.5	18.1	19.0
67.5°	3.6	3.6	3.6	5.4	9.1	13.6	17.2	18.1
70°	2.7	3.6	3.6	4.5	8.2	12.7	16.3	17.2
72.5°	2.7	2.7	3.6	4.5	7.2	10.9	14.5	15.4
75°	2.7	2.7	2.7	3.6	6.3	10.0	12.7	13.6
77.5°	2.7	2.7	2.7	3.6	5.4	8.2	11.8	11.8
80°	1.8	2.7	2.7	2.7	4.5	6.3	9.1	10.0
82.5°	1.8	1.8	1.8	2.7	3.6	5.4	7.2	7.2
85°	1.8	1.8	1.8	1.8	2.7	3.6	4.5	4.5
87.5°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)