

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: P1315025

Luminaire Tested: LDSQA3D20R659730D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

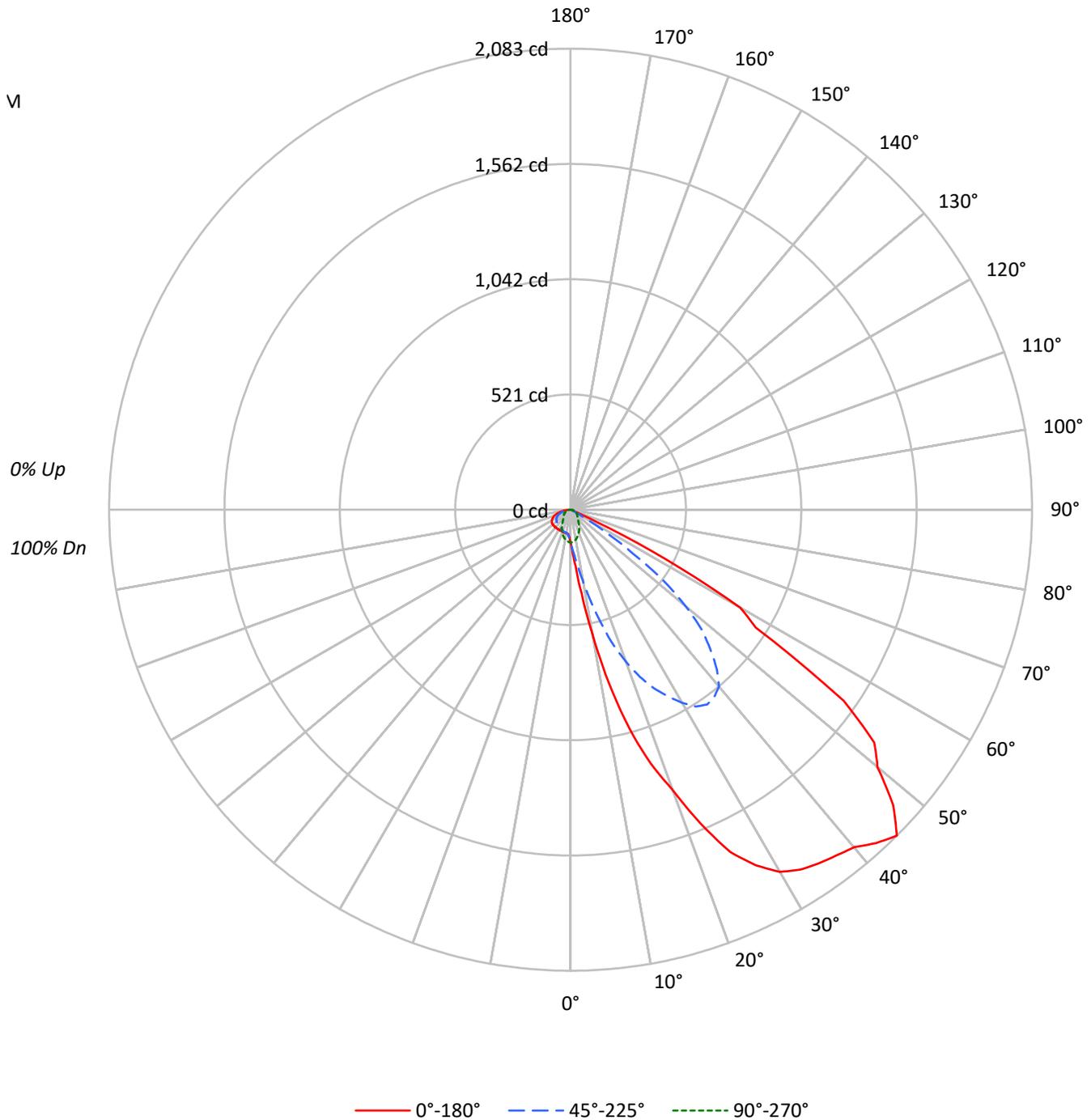
Test Method: LM-79-2019  
Report Number: P1315025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R659730D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1511.0 lumens  
Efficiency: N/A  
Efficacy: 52.5 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
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		0	
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	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53	53	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39	39	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	23	23

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

	0°	45°	90°	135°	180°
0°	25317	25317	25317	25317	25317
5°	44257	36149	24878	20175	19380
10°	100153	58287	23854	18555	18817
15°	182060	93731	22145	18632	19185
20°	246854	133828	19995	18602	19446
25°	324452	168991	17558	18129	19858
30°	375697	200357	15074	18077	20781
35°	410272	225845	12741	18481	21971
40°	447551	234331	11241	19425	23494
45°	507383	217353	10692	20654	25452
50°	484660	181443	10556	21917	27999
55°	451713	101909	10930	23661	30927
60°	304249	21907	10953	25041	33411
65°	46905	5542	10514	25918	36432
70°	5338	5338	9920	26688	38924
75°	5057	5057	9050	26217	39326
80°	4463	6050	9025	24001	39077
85°	2964	5928	8892	23910	35964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 507383 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.8	1.2
10°-20°	96.1	6.4
20°-30°	225.7	14.9
30°-40°	341.1	22.6
40°-50°	392.0	25.9
50°-60°	311.2	20.6
60°-70°	93.2	6.2
70°-80°	25.3	1.7
80°-90°	8.5	0.6
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°	339.6	22.5
0°-40°	680.7	45.0
0°-60°	1383.9	91.6
0°-90°	1511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	147	147	147	147	147	
5°	256	209	144	117	112	34
15°	1021	526	124	104	108	294
25°	1707	889	92	95	104	779
35°	1951	1074	61	88	104	1224
45°	2083	892	44	85	104	1547
55°	1504	339	36	79	103	1239
65°	115	14	26	64	89	258
75°	8	8	14	39	59	8
85°	2	3	4	12	18	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°	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0
2.5°	186.3	187.9	186.3	186.3	184.8	183.3	172.7	160.6	147.0	136.4	128.8
5°	256.0	257.6	253.0	253.0	250.0	245.4	209.1	174.2	143.9	127.3	116.7
7.5°	378.8	384.8	377.2	368.2	351.5	348.5	260.6	187.9	140.9	118.2	109.1
10°	572.7	568.1	560.6	542.4	513.6	500.0	333.3	201.5	136.4	112.1	106.1
12.5°	807.5	795.4	786.3	753.0	713.6	690.9	424.2	213.6	130.3	106.1	104.5
15°	1021.1	1012.0	990.8	959.0	910.5	892.4	525.7	221.2	124.2	101.5	104.5
17.5°	1201.4	1192.3	1180.2	1148.4	1098.4	1071.1	639.3	225.7	116.7	98.5	103.0
20°	1346.9	1340.8	1324.1	1298.4	1248.4	1222.6	730.2	225.7	109.1	95.4	101.5
22.5°	1534.7	1521.1	1499.9	1462.0	1399.9	1360.5	816.6	221.2	101.5	92.4	98.5
25°	1707.4	1698.3	1671.1	1625.6	1559.0	1519.6	889.3	212.1	92.4	87.9	95.4
27.5°	1810.5	1804.4	1778.6	1731.7	1657.4	1627.1	949.9	198.5	83.3	83.3	93.9
30°	1889.2	1877.1	1851.4	1805.9	1730.2	1693.8	1007.5	181.8	75.8	78.8	90.9
32.5°	1928.6	1924.1	1901.4	1862.0	1787.7	1746.8	1054.5	160.6	66.7	75.8	89.4
35°	1951.4	1946.8	1928.6	1890.8	1821.1	1781.7	1074.2	140.9	60.6	72.7	87.9
37.5°	1969.5	1965.0	1942.3	1904.4	1834.7	1793.8	1065.1	119.7	54.5	69.7	86.4
40°	1990.7	1974.1	1939.2	1901.4	1837.7	1798.3	1042.3	100.0	50.0	68.2	86.4
42.5°	2042.3	1984.7	1930.1	1895.3	1834.7	1789.2	977.2	78.8	45.5	65.1	84.8
45°	2083.2	1981.7	1912.0	1884.7	1822.6	1771.1	892.4	57.6	43.9	63.6	84.8
47.5°	1975.6	1913.5	1881.7	1866.5	1799.9	1743.8	804.5	39.4	42.4	62.1	83.3
50°	1808.9	1801.4	1789.2	1790.8	1730.2	1684.7	677.2	27.3	39.4	60.6	81.8
52.5°	1728.6	1719.6	1698.3	1683.2	1622.6	1583.2	536.3	21.2	37.9	59.1	80.3
55°	1504.4	1510.5	1487.8	1496.8	1478.7	1459.0	339.4	19.7	36.4	56.1	78.8
57.5°	990.8	1021.1	1074.2	1137.8	1195.4	1234.7	183.3	19.7	33.3	54.5	75.8
60°	883.3	875.7	874.2	886.3	912.0	933.3	63.6	18.2	31.8	50.0	72.7
62.5°	483.3	480.3	525.7	603.0	648.4	653.0	18.2	18.2	28.8	47.0	68.2
65°	115.1	119.7	133.3	166.7	197.0	216.6	13.6	16.7	25.8	43.9	63.6
67.5°	18.2	19.7	19.7	24.2	27.3	27.3	12.1	15.2	22.7	39.4	59.1
70°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	13.6	19.7	34.8	53.0
72.5°	9.1	9.1	9.1	9.1	9.1	9.1	10.6	12.1	16.7	30.3	45.5
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.6	13.6	24.2	39.4
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	7.6	9.1	12.1	19.7	31.8
80°	4.5	4.5	4.5	4.5	4.5	4.5	6.1	7.6	9.1	15.2	24.2
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.1	7.6	12.1	18.2
85°	1.5	1.5	1.5	1.5	3.0	3.0	3.0	4.5	4.5	7.6	12.1
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	4.5	6.1
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°	147.0	147.0
2.5°	124.2	122.7
5°	112.1	112.1
7.5°	107.6	107.6
10°	106.1	107.6
12.5°	106.1	107.6
15°	106.1	107.6
17.5°	106.1	107.6
20°	104.5	106.1
22.5°	103.0	104.5
25°	101.5	104.5
27.5°	100.0	104.5
30°	100.0	104.5
32.5°	100.0	104.5
35°	98.5	104.5
37.5°	98.5	104.5
40°	98.5	104.5
42.5°	98.5	104.5
45°	98.5	104.5
47.5°	98.5	104.5
50°	98.5	104.5
52.5°	97.0	104.5
55°	97.0	103.0
57.5°	93.9	100.0
60°	90.9	97.0
62.5°	87.9	93.9
65°	83.3	89.4
67.5°	78.8	83.3
70°	71.2	77.3
72.5°	63.6	68.2
75°	54.5	59.1
77.5°	45.5	50.0
80°	36.4	39.4
82.5°	25.8	28.8
85°	16.7	18.2
87.5°	7.6	7.6
90°	0.0	0.0

(END OF REPORT)