

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: P1309628

Luminaire Tested: LDSQA3D20R709030D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

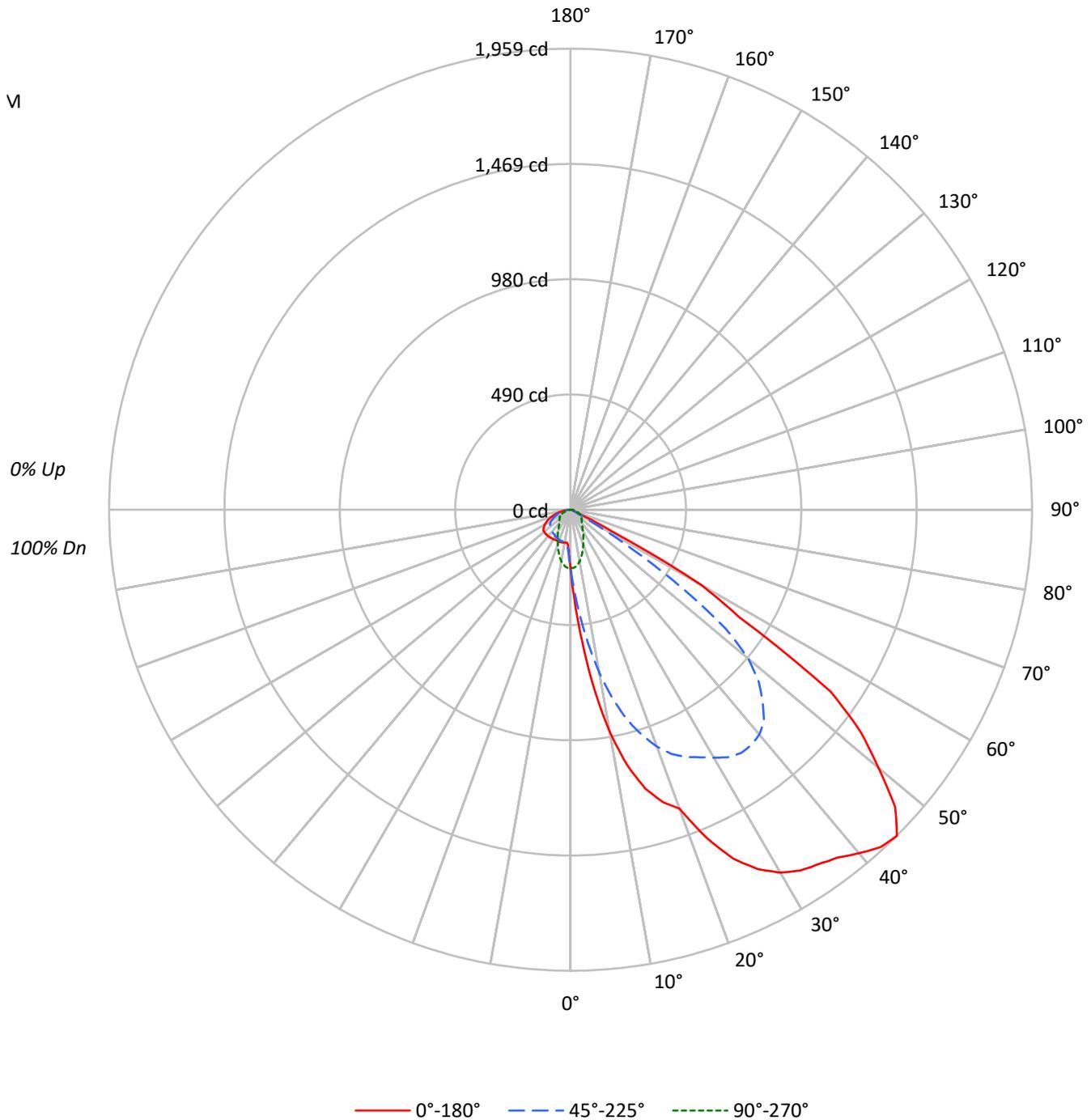
Test Method: LM-79-2019  
Report Number: P1309628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709030D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1693.0 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°	135°	180°
0°	42470	42470	42470	42470	42470
5°	96657	77381	42045	26572	24826
10°	167482	122888	38998	24221	24815
15°	218647	164141	34037	24694	25604
20°	247660	196270	29104	25072	26630
25°	311017	220184	24399	25350	27288
30°	354040	241860	20821	25872	28895
35°	386388	265287	18102	26281	30549
40°	428351	280261	16704	27338	33049
45°	477231	280581	16465	28789	35803
50°	457090	263858	16290	30330	38930
55°	404722	170909	16725	31948	42097
60°	221685	36649	16878	32585	43641
65°	15812	8965	16504	32357	44052
70°	7654	8510	15308	30616	42550
75°	6721	8983	14639	29212	39326
80°	6744	8331	13389	26778	36895
85°	6719	10078	13437	23317	33395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 477231 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.2	1.9
10°-20°	137.6	8.1
20°-30°	264.0	15.6
30°-40°	373.3	22.0
40°-50°	422.3	24.9
50°-60°	334.4	19.8
60°-70°	90.2	5.3
70°-80°	29.9	1.8
80°-90°	9.2	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°	433.7	25.6
0°-40°	807.0	47.7
0°-60°	1563.8	92.4
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	247	247	247	247	247	
5°	559	448	243	154	144	66
15°	1226	921	191	138	144	345
25°	1637	1159	128	133	144	750
35°	1838	1262	86	125	145	1157
45°	1959	1152	68	118	147	1466
55°	1348	569	56	106	140	1094
65°	39	22	40	79	108	140
75°	10	14	22	44	59	11
85°	3	5	7	12	17	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6
2.5°	383.4	383.4	381.7	375.0	371.6	363.2	356.4	337.8	292.2	248.3	212.8
5°	559.1	567.5	555.7	554.0	543.9	528.7	518.6	447.6	337.8	243.2	182.4
7.5°	766.9	770.2	766.9	750.0	734.8	709.4	685.8	574.3	383.4	234.8	160.5
10°	957.7	952.7	942.5	930.7	908.7	881.7	841.2	702.7	427.3	223.0	147.0
12.5°	1113.1	1111.4	1099.6	1087.8	1060.8	1025.3	984.8	819.2	464.5	207.8	140.2
15°	1226.3	1226.3	1214.5	1201.0	1175.6	1146.9	1101.3	920.6	494.9	190.9	133.4
17.5°	1302.3	1298.9	1290.5	1280.3	1260.1	1231.4	1195.9	1001.6	515.2	174.0	131.8
20°	1351.3	1349.6	1342.8	1327.6	1310.7	1288.8	1256.7	1070.9	523.6	158.8	130.1
22.5°	1508.4	1494.9	1469.5	1437.4	1396.9	1344.5	1300.6	1123.3	520.2	141.9	126.7
25°	1636.7	1631.7	1604.7	1565.8	1511.8	1444.2	1371.6	1158.7	503.4	128.4	123.3
27.5°	1721.2	1712.8	1687.4	1645.2	1587.8	1521.9	1454.3	1185.8	479.7	116.5	118.2
30°	1780.3	1775.3	1749.9	1702.6	1643.5	1570.9	1501.6	1216.2	447.6	104.7	113.2
32.5°	1817.5	1812.4	1787.1	1744.8	1687.4	1611.4	1532.0	1246.6	408.8	94.6	108.1
35°	1837.8	1832.7	1804.0	1766.8	1712.8	1638.4	1554.0	1261.8	361.5	86.1	103.0
37.5°	1863.1	1853.0	1814.1	1768.5	1714.4	1645.2	1560.7	1260.1	314.2	79.4	99.7
40°	1905.3	1878.3	1822.5	1761.7	1706.0	1636.7	1555.7	1246.6	261.8	74.3	96.3
42.5°	1945.9	1907.0	1824.2	1751.6	1689.1	1621.5	1537.1	1216.2	204.4	70.9	94.6
45°	1959.4	1901.9	1800.6	1728.0	1668.8	1599.6	1511.8	1152.0	138.5	67.6	91.2
47.5°	1869.8	1827.6	1743.2	1689.1	1633.4	1565.8	1474.6	1084.4	79.4	64.2	87.8
50°	1706.0	1679.0	1631.7	1597.9	1567.5	1520.2	1430.7	984.8	47.3	60.8	84.5
52.5°	1554.0	1545.5	1511.8	1484.7	1467.8	1445.9	1364.8	831.0	38.8	59.1	81.1
55°	1347.9	1320.9	1312.4	1302.3	1337.8	1336.1	1226.3	569.2	37.2	55.7	77.7
57.5°	846.2	858.1	902.0	983.1	1079.3	1135.1	1131.7	304.0	35.5	52.4	72.6
60°	643.6	641.9	655.4	689.2	760.1	839.5	913.8	106.4	33.8	49.0	69.3
62.5°	192.6	197.6	238.2	349.6	418.9	516.9	471.3	25.3	32.1	43.9	62.5
65°	38.8	40.5	40.5	45.6	55.7	84.5	103.0	22.0	30.4	40.5	57.4
67.5°	16.9	16.9	16.9	18.6	18.6	22.0	18.6	20.3	27.0	35.5	50.7
70°	15.2	15.2	15.2	15.2	15.2	15.2	16.9	16.9	23.6	30.4	43.9
72.5°	11.8	11.8	11.8	13.5	13.5	13.5	13.5	15.2	20.3	25.3	37.2
75°	10.1	10.1	10.1	10.1	11.8	11.8	11.8	13.5	16.9	22.0	30.4
77.5°	8.4	8.4	8.4	8.4	8.4	10.1	10.1	10.1	13.5	16.9	25.3
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.4	10.1	13.5	18.6
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	8.4	10.1	13.5
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	6.8	8.4
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	5.1
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):**

	135°	157.5°	180°
0°	246.6	246.6	246.6
2.5°	187.5	177.4	172.3
5°	153.7	145.3	143.6
7.5°	141.9	140.2	140.2
10°	138.5	140.2	141.9
12.5°	138.5	141.9	143.6
15°	138.5	141.9	143.6
17.5°	138.5	141.9	143.6
20°	136.8	141.9	145.3
22.5°	135.1	141.9	143.6
25°	133.4	141.9	143.6
27.5°	131.8	140.2	143.6
30°	130.1	140.2	145.3
32.5°	126.7	140.2	145.3
35°	125.0	140.2	145.3
37.5°	123.3	140.2	147.0
40°	121.6	140.2	147.0
42.5°	119.9	140.2	147.0
45°	118.2	138.5	147.0
47.5°	114.9	138.5	147.0
50°	113.2	136.8	145.3
52.5°	109.8	135.1	145.3
55°	106.4	131.8	140.2
57.5°	101.3	126.7	133.4
60°	94.6	119.9	126.7
62.5°	86.1	111.5	116.5
65°	79.4	101.3	108.1
67.5°	69.3	89.5	96.3
70°	60.8	77.7	84.5
72.5°	52.4	65.9	72.6
75°	43.9	54.1	59.1
77.5°	33.8	43.9	47.3
80°	27.0	33.8	37.2
82.5°	18.6	23.6	25.3
85°	11.8	15.2	16.9
87.5°	5.1	6.8	6.8
90°	0.0	0.0	0.0

(END OF REPORT)