

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: P1317839

Luminaire Tested: LDSQA3D20R609827D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

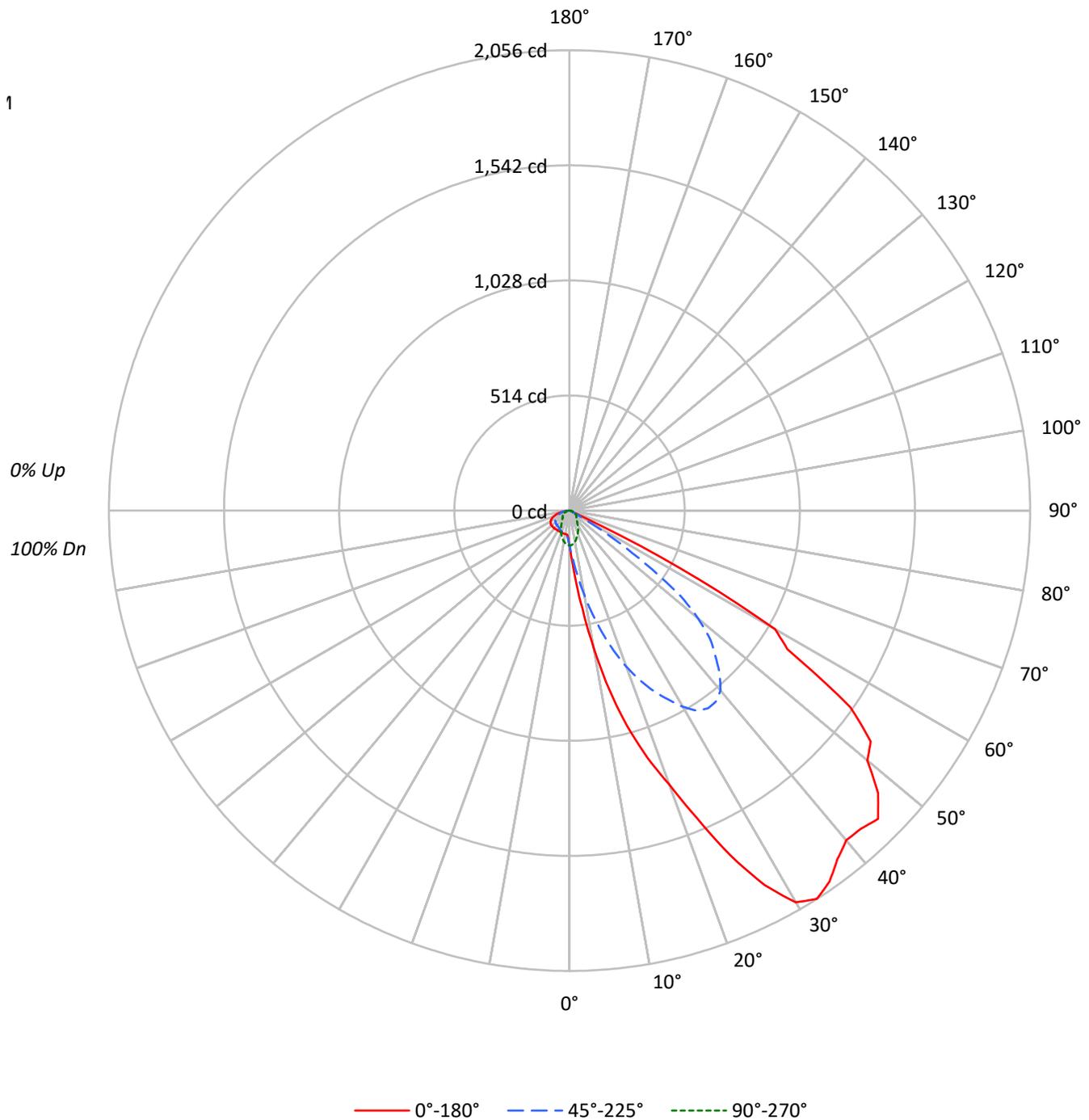
Test Method: LM-79-2019  
Report Number: P1317839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R609827D010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1565.0 lumens  
Efficiency: N/A  
Efficacy: 57.1 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22

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

	0°	45°	90°	135°	180°
0°	26712	26712	26712	26712	26712
5°	52625	41076	26312	19916	18930
10°	108723	66926	24623	18170	18415
15°	177799	100453	22073	18258	18775
20°	238570	136100	19812	18254	19042
25°	322779	168953	17292	18110	19744
30°	401728	201153	14438	18097	20662
35°	425305	226707	12257	18544	21529
40°	432083	235724	11196	19200	23359
45°	474332	224513	10741	20435	25306
50°	465021	201243	10664	21729	27838
55°	459610	123437	10689	23480	30747
60°	364561	29416	11263	25007	33308
65°	23188	5216	11003	25510	35943
70°	5035	5740	10726	26486	37967
75°	4724	5656	9449	25552	38794
80°	4265	5653	9918	25390	36696
85°	2766	5533	11263	22527	36557

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 500660 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.4	1.2
10°-20°	97.6	6.2
20°-30°	226.3	14.5
30°-40°	351.8	22.5
40°-50°	400.9	25.6
50°-60°	337.6	21.6
60°-70°	98.0	6.3
70°-80°	25.1	1.6
80°-90°	8.5	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°	343.2	21.9
0°-40°	695.0	44.4
0°-60°	1433.5	91.6
0°-90°	1565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1565.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	155	155	155	155	155	
5°	304	238	152	115	110	39
15°	997	563	124	102	105	289
25°	1699	889	91	95	104	789
35°	2023	1078	58	88	102	1257
45°	1948	922	44	84	104	1464
55°	1531	411	36	78	102	1288
65°	57	13	27	63	88	281
75°	7	8	14	38	58	8
85°	1	3	6	11	18	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1
2.5°	209.1	207.7	207.7	206.3	204.9	203.4	199.2	197.7	189.2	172.1	155.1
5°	304.4	303.0	298.7	297.3	290.2	280.3	270.3	260.3	237.6	189.2	152.2
7.5°	441.0	443.9	441.0	425.4	415.4	399.8	369.9	348.5	303.0	206.3	146.5
10°	621.7	621.7	617.4	593.2	571.9	542.0	503.6	466.6	382.7	221.9	140.8
12.5°	818.0	822.3	800.9	781.0	742.6	705.6	653.0	597.5	473.7	234.7	133.7
15°	997.2	994.4	973.1	947.5	907.6	856.4	800.9	729.8	563.4	243.3	123.8
17.5°	1156.6	1150.9	1132.4	1103.9	1055.6	998.7	927.5	850.7	655.8	250.4	116.7
20°	1301.7	1281.8	1260.4	1230.6	1183.6	1123.9	1049.9	963.1	742.6	250.4	108.1
22.5°	1485.2	1465.3	1435.4	1389.9	1327.3	1253.3	1166.5	1068.4	819.4	244.7	99.6
25°	1698.6	1682.9	1631.7	1573.4	1492.3	1404.1	1303.1	1170.8	889.1	236.2	91.0
27.5°	1885.0	1867.9	1816.7	1731.3	1633.2	1527.9	1421.2	1286.0	950.3	220.5	81.1
30°	2020.1	1998.8	1958.9	1877.8	1758.3	1630.3	1503.7	1374.2	1011.5	202.0	72.6
32.5°	2055.7	2052.8	2022.9	1963.2	1856.5	1715.7	1564.9	1424.0	1059.8	177.8	65.4
35°	2022.9	2027.2	2021.5	1991.6	1913.4	1775.4	1604.7	1451.1	1078.3	153.6	58.3
37.5°	1963.2	1968.9	1978.8	1983.1	1933.3	1811.0	1627.5	1462.4	1074.1	129.5	54.1
40°	1921.9	1919.1	1919.1	1947.5	1937.6	1826.6	1630.3	1453.9	1048.5	103.9	49.8
42.5°	1926.2	1894.9	1873.6	1919.1	1933.3	1819.5	1611.8	1431.1	993.0	79.7	45.5
45°	1947.5	1880.7	1843.7	1902.0	1924.8	1795.3	1577.7	1397.0	921.8	55.5	44.1
47.5°	1867.9	1823.8	1818.1	1900.6	1909.1	1754.1	1525.0	1342.9	853.6	38.4	41.3
50°	1735.6	1728.5	1758.3	1843.7	1845.1	1685.8	1465.3	1244.8	751.1	27.0	39.8
52.5°	1694.3	1698.6	1725.6	1769.7	1728.5	1570.6	1357.2	1162.3	621.7	21.3	38.4
55°	1530.7	1537.8	1563.4	1590.5	1560.6	1429.7	1226.3	1062.7	411.1	19.9	35.6
57.5°	1152.3	1170.8	1217.8	1241.9	1244.8	1165.1	1111.1	916.2	231.9	19.9	34.1
60°	1058.4	1034.2	1012.9	963.1	917.6	907.6	913.3	687.1	85.4	18.5	32.7
62.5°	553.4	542.0	574.7	596.1	601.8	633.1	591.8	362.8	18.5	18.5	29.9
65°	56.9	56.9	69.7	92.5	153.6	204.9	194.9	105.3	12.8	17.1	27.0
67.5°	17.1	17.1	17.1	19.9	25.6	25.6	21.3	15.6	12.8	15.6	24.2
70°	10.0	10.0	10.0	10.0	10.0	10.0	11.4	10.0	11.4	14.2	21.3
72.5°	8.5	8.5	8.5	8.5	10.0	10.0	10.0	10.0	10.0	12.8	18.5
75°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.5	8.5	10.0	14.2
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	7.1	7.1	7.1	8.5	11.4
80°	4.3	4.3	4.3	4.3	4.3	5.7	5.7	5.7	5.7	7.1	10.0
82.5°	2.8	2.8	2.8	2.8	4.3	4.3	4.3	4.3	4.3	5.7	7.1
85°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	5.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.3
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):**

	112.5°	135°	157.5°	180°
0°	155.1	155.1	155.1	155.1
2.5°	140.8	130.9	125.2	122.3
5°	128.0	115.2	111.0	109.5
7.5°	116.7	108.1	106.7	106.7
10°	109.5	103.9	105.3	105.3
12.5°	105.3	103.9	105.3	106.7
15°	101.0	102.4	105.3	105.3
17.5°	98.2	101.0	103.9	105.3
20°	93.9	99.6	103.9	103.9
22.5°	91.0	98.2	102.4	103.9
25°	88.2	95.3	101.0	103.9
27.5°	83.9	93.9	101.0	102.4
30°	79.7	91.0	99.6	103.9
32.5°	75.4	89.6	99.6	102.4
35°	72.6	88.2	99.6	102.4
37.5°	69.7	86.8	99.6	103.9
40°	68.3	85.4	98.2	103.9
42.5°	65.4	85.4	98.2	103.9
45°	64.0	83.9	98.2	103.9
47.5°	62.6	82.5	98.2	103.9
50°	59.7	81.1	96.7	103.9
52.5°	58.3	79.7	96.7	103.9
55°	55.5	78.2	95.3	102.4
57.5°	54.1	75.4	93.9	99.6
60°	51.2	72.6	91.0	96.7
62.5°	46.9	68.3	86.8	93.9
65°	42.7	62.6	82.5	88.2
67.5°	38.4	58.3	76.8	82.5
70°	34.1	52.6	69.7	75.4
72.5°	29.9	45.5	62.6	66.9
75°	25.6	38.4	52.6	58.3
77.5°	19.9	31.3	44.1	48.4
80°	15.6	25.6	34.1	37.0
82.5°	12.8	18.5	25.6	27.0
85°	8.5	11.4	15.6	18.5
87.5°	4.3	5.7	7.1	8.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)