

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: P1311713

Luminaire Tested: LDSQA3D17R659040DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

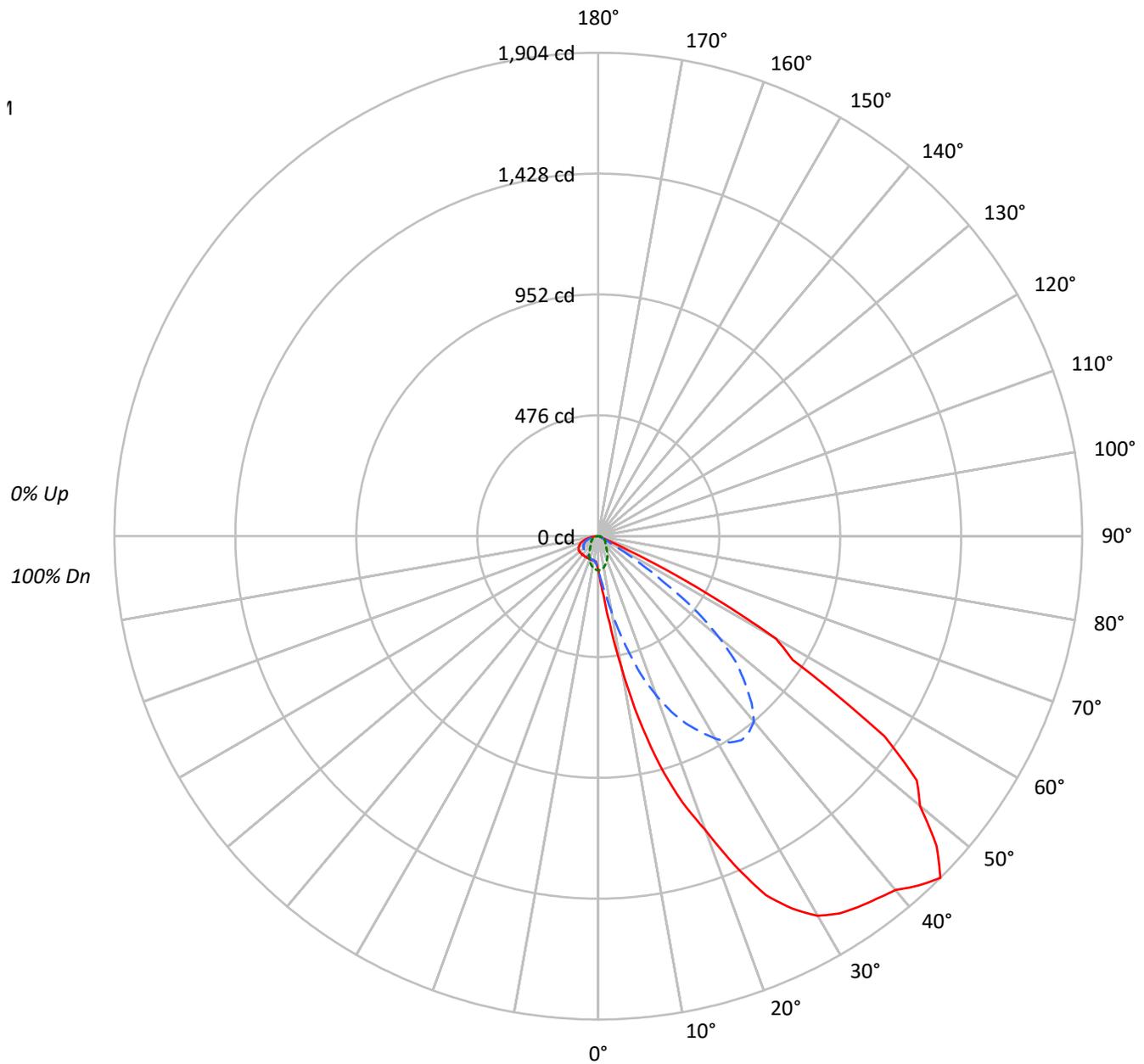
Test Method: LM-79-2019  
Report Number: P1311713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R659040DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1381.0 lumens  
Efficiency: N/A  
Efficacy: 65.1 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): 21.2  
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



— 0°-180°    - - - 45°-225°    - - - - 90°-270°



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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	94	91	92	90	89	89	89	89	87	
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62	
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	55	53	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45	
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34	
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29	
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26	
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23	

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

	0°	45°	90°	135°	180°
0°	23130	23130	23130	23130	23130
5°	40454	33037	22734	18429	17720
10°	91532	53268	21790	16946	17191
15°	166406	85672	20237	17027	17527
20°	225612	122318	18273	17008	17759
25°	296537	154454	16057	16570	18148
30°	343381	183115	13761	16526	18992
35°	374972	206398	11648	16883	20078
40°	409061	214187	10274	17738	21470
45°	463713	198647	9791	18876	23260
50°	442970	165849	9646	20041	25587
55°	412859	93141	9969	21619	28285
60°	278071	20047	10023	22906	30518
65°	42870	5094	9577	23717	33294
70°	4884	4884	9064	24422	35550
75°	4591	4591	8318	23955	35933
80°	4166	5455	8232	22018	35704
85°	2766	5533	8299	21934	32802

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 463713 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.3	1.2
10°-20°	87.8	6.4
20°-30°	206.3	14.9
30°-40°	311.7	22.6
40°-50°	358.3	25.9
50°-60°	284.5	20.6
60°-70°	85.2	6.2
70°-80°	23.2	1.7
80°-90°	7.8	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°	310.4	22.5
0°-40°	622.1	45.0
0°-60°	1264.9	91.6
0°-90°	1381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1381.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	134	134	134	134	134	
5°	234	191	132	107	102	31
15°	933	480	114	96	98	269
25°	1560	813	84	87	96	712
35°	1784	982	55	80	96	1119
45°	1904	816	40	78	96	1414
55°	1375	310	33	72	94	1133
65°	105	12	24	58	82	236
75°	7	7	12	36	54	7
85°	1	3	4	11	17	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°	134.3	134.3	134.3	134.3	134.3	134.3	134.3	134.3	134.3	134.3	134.3
2.5°	170.3	171.7	170.3	170.3	168.9	167.5	157.9	146.8	134.3	124.6	117.7
5°	234.0	235.4	231.2	231.2	228.5	224.3	191.1	159.2	131.5	116.3	106.6
7.5°	346.2	351.7	344.8	336.5	321.2	318.5	238.2	171.7	128.8	108.0	99.7
10°	523.4	519.3	512.3	495.7	469.4	456.9	304.6	184.2	124.6	102.5	96.9
12.5°	738.0	727.0	718.6	688.2	652.2	631.4	387.7	195.2	119.1	96.9	95.5
15°	933.3	925.0	905.6	876.5	832.2	815.6	480.5	202.2	113.5	92.8	95.5
17.5°	1098.1	1089.7	1078.7	1049.6	1003.9	979.0	584.3	206.3	106.6	90.0	94.2
20°	1231.0	1225.4	1210.2	1186.7	1141.0	1117.4	667.4	206.3	99.7	87.2	92.8
22.5°	1402.7	1390.2	1370.8	1336.2	1279.4	1243.4	746.3	202.2	92.8	84.5	90.0
25°	1560.5	1552.2	1527.3	1485.8	1424.8	1388.8	812.8	193.9	84.5	80.3	87.2
27.5°	1654.7	1649.2	1625.6	1582.7	1514.8	1487.1	868.2	181.4	76.2	76.2	85.9
30°	1726.7	1715.6	1692.1	1650.5	1581.3	1548.1	920.8	166.2	69.2	72.0	83.1
32.5°	1762.7	1758.5	1737.8	1701.8	1633.9	1596.5	963.7	146.8	60.9	69.2	81.7
35°	1783.5	1779.3	1762.7	1728.1	1664.4	1628.4	981.7	128.8	55.4	66.5	80.3
37.5°	1800.1	1795.9	1775.2	1740.5	1676.8	1639.5	973.4	109.4	49.8	63.7	78.9
40°	1819.5	1804.2	1772.4	1737.8	1679.6	1643.6	952.7	91.4	45.7	62.3	78.9
42.5°	1866.5	1813.9	1764.1	1732.2	1676.8	1635.3	893.1	72.0	41.5	59.5	77.5
45°	1903.9	1811.2	1747.5	1722.5	1665.8	1618.7	815.6	52.6	40.2	58.2	77.5
47.5°	1805.6	1748.9	1719.8	1705.9	1645.0	1593.8	735.3	36.0	38.8	56.8	76.2
50°	1653.3	1646.4	1635.3	1636.7	1581.3	1539.8	619.0	24.9	36.0	55.4	74.8
52.5°	1579.9	1571.6	1552.2	1538.4	1483.0	1447.0	490.2	19.4	34.6	54.0	73.4
55°	1375.0	1380.5	1359.8	1368.1	1351.4	1333.4	310.2	18.0	33.2	51.2	72.0
57.5°	905.6	933.3	981.7	1039.9	1092.5	1128.5	167.5	18.0	30.5	49.8	69.2
60°	807.3	800.3	799.0	810.0	833.6	853.0	58.2	16.6	29.1	45.7	66.5
62.5°	441.7	438.9	480.5	551.1	592.6	596.8	16.6	16.6	26.3	42.9	62.3
65°	105.2	109.4	121.9	152.3	180.0	198.0	12.5	15.2	23.5	40.2	58.2
67.5°	16.6	18.0	18.0	22.2	24.9	24.9	11.1	13.8	20.8	36.0	54.0
70°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	12.5	18.0	31.8	48.5
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	9.7	11.1	15.2	27.7	41.5
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.7	12.5	22.2	36.0
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	6.9	8.3	11.1	18.0	29.1
80°	4.2	4.2	4.2	4.2	4.2	4.2	5.5	6.9	8.3	13.8	22.2
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.5	6.9	11.1	16.6
85°	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2	4.2	6.9	11.1
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2	5.5
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°	134.3	134.3
2.5°	113.5	112.2
5°	102.5	102.5
7.5°	98.3	98.3
10°	96.9	98.3
12.5°	96.9	98.3
15°	96.9	98.3
17.5°	96.9	98.3
20°	95.5	96.9
22.5°	94.2	95.5
25°	92.8	95.5
27.5°	91.4	95.5
30°	91.4	95.5
32.5°	91.4	95.5
35°	90.0	95.5
37.5°	90.0	95.5
40°	90.0	95.5
42.5°	90.0	95.5
45°	90.0	95.5
47.5°	90.0	95.5
50°	90.0	95.5
52.5°	88.6	95.5
55°	88.6	94.2
57.5°	85.9	91.4
60°	83.1	88.6
62.5°	80.3	85.9
65°	76.2	81.7
67.5°	72.0	76.2
70°	65.1	70.6
72.5°	58.2	62.3
75°	49.8	54.0
77.5°	41.5	45.7
80°	33.2	36.0
82.5°	23.5	26.3
85°	15.2	16.6
87.5°	6.9	6.9
90°	0.0	0.0

(END OF REPORT)