

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: P1314862

Luminaire Tested: LDSQA3D17R609730DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

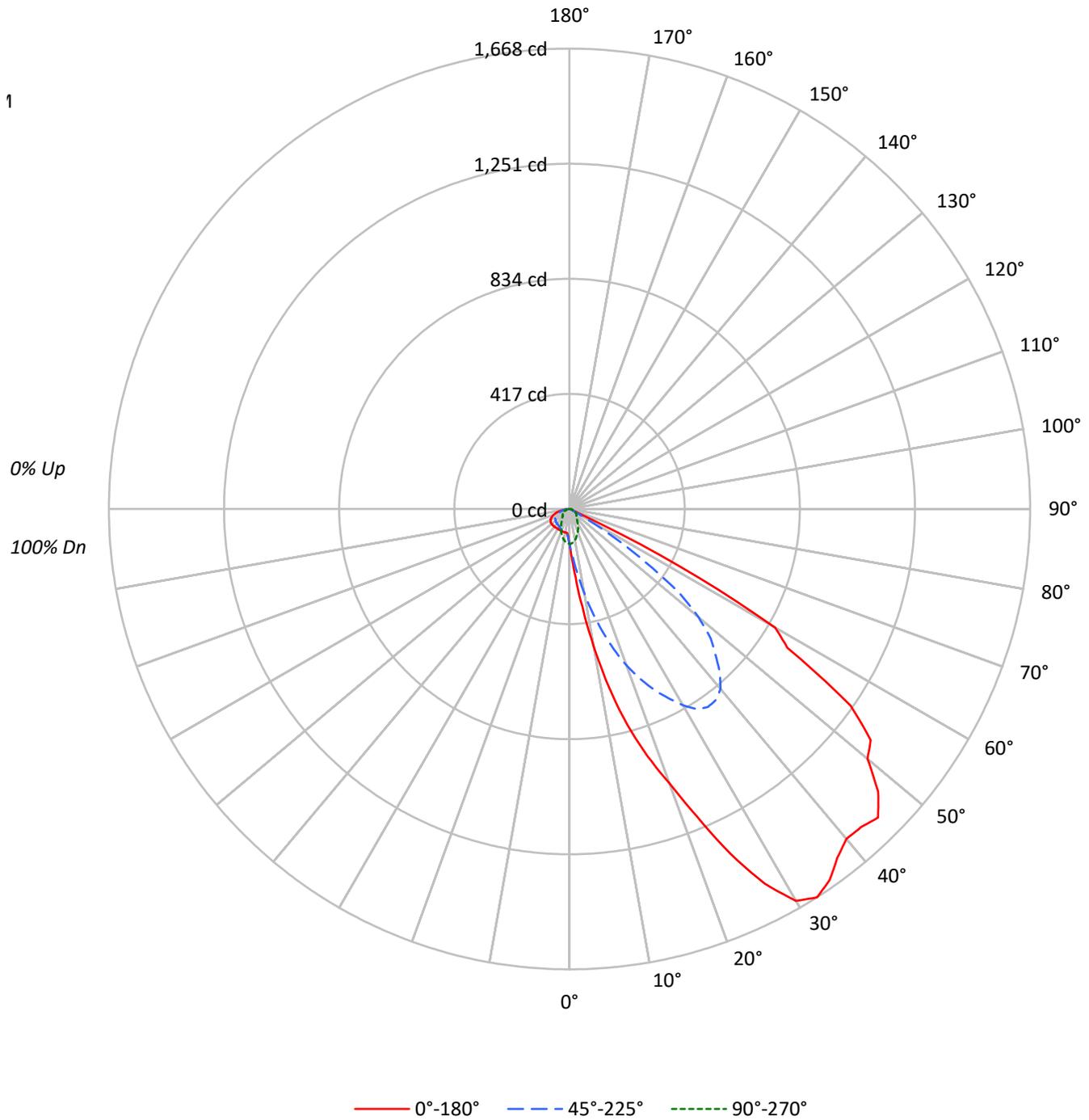
Test Method: LM-79-2019  
Report Number: P1314862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R609730DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1270.0 lumens  
Efficiency: N/A  
Efficacy: 59.9 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): 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





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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	93	91	92	90	89	87	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74	74	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33	33	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	25	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22	22	22

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

	0°	45°	90°	135°	180°
0°	21666	21666	21666	21666	21666
5°	42719	33331	21351	16164	15369
10°	88227	54300	19989	14742	14935
15°	144297	81518	17901	14817	15227
20°	193594	110442	16073	14809	15450
25°	261933	137104	14043	14689	16019
30°	326000	163229	11713	14696	16764
35°	345138	183985	9945	15054	17471
40°	350653	191277	9083	15580	18952
45°	384922	182207	8719	16586	20532
50°	377354	163304	8654	17630	22587
55°	372984	100167	8678	19067	24952
60°	295844	23870	9162	20288	27039
65°	18827	4238	8925	20702	29178
70°	4079	4633	8711	21501	30817
75°	3859	4591	7652	20761	31474
80°	3471	4562	8034	20629	29754
85°	2371	4545	9090	18180	29640

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 406282 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.7	1.2
10°-20°	79.2	6.2
20°-30°	183.6	14.5
30°-40°	285.5	22.5
40°-50°	325.3	25.6
50°-60°	274.0	21.6
60°-70°	79.5	6.3
70°-80°	20.4	1.6
80°-90°	6.9	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°	278.5	21.9
0°-40°	564.0	44.4
0°-60°	1163.3	91.6
0°-90°	1270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	126	126	126	126	126	
5°	247	193	124	94	89	32
15°	809	457	100	83	85	234
25°	1378	722	74	77	84	640
35°	1642	875	47	72	83	1020
45°	1580	748	36	68	84	1188
55°	1242	334	29	64	83	1045
65°	46	10	22	51	72	228
75°	6	7	12	31	47	6
85°	1	2	5	9	15	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°	125.8	125.8	125.8	125.8	125.8	125.8	125.8	125.8	125.8	125.8	125.8
2.5°	169.7	168.5	168.5	167.4	166.2	165.1	161.6	160.5	153.5	139.7	125.8
5°	247.1	245.9	242.4	241.3	235.5	227.4	219.3	211.3	192.8	153.5	123.5
7.5°	357.9	360.2	357.9	345.2	337.1	324.4	300.2	282.8	245.9	167.4	118.9
10°	504.5	504.5	501.0	481.4	464.1	439.8	408.7	378.7	310.5	180.1	114.3
12.5°	663.8	667.3	650.0	633.8	602.6	572.6	529.9	484.9	384.4	190.5	108.5
15°	809.3	807.0	789.6	768.9	736.5	695.0	650.0	592.2	457.2	197.4	100.4
17.5°	938.6	933.9	918.9	895.9	856.6	810.4	752.7	690.4	532.2	203.2	94.7
20°	1056.3	1040.2	1022.8	998.6	960.5	912.0	852.0	781.6	602.6	203.2	87.7
22.5°	1205.2	1189.1	1164.8	1127.9	1077.1	1017.1	946.6	867.0	665.0	198.6	80.8
25°	1378.4	1365.7	1324.2	1276.8	1211.0	1139.4	1057.5	950.1	721.5	191.6	73.9
27.5°	1529.6	1515.8	1474.2	1405.0	1325.3	1239.9	1153.3	1043.6	771.2	178.9	65.8
30°	1639.3	1622.0	1589.7	1523.9	1426.9	1323.0	1220.3	1115.2	820.8	163.9	58.9
32.5°	1668.2	1665.9	1641.6	1593.1	1506.6	1392.3	1269.9	1155.6	860.1	144.3	53.1
35°	1641.6	1645.1	1640.5	1616.2	1552.7	1440.7	1302.2	1177.5	875.1	124.7	47.3
37.5°	1593.1	1597.8	1605.8	1609.3	1568.9	1469.6	1320.7	1186.8	871.6	105.1	43.9
40°	1559.7	1557.3	1557.3	1580.4	1572.4	1482.3	1323.0	1179.8	850.8	84.3	40.4
42.5°	1563.1	1537.7	1520.4	1557.3	1568.9	1476.5	1308.0	1161.4	805.8	64.6	36.9
45°	1580.4	1526.2	1496.2	1543.5	1562.0	1456.9	1280.3	1133.7	748.1	45.0	35.8
47.5°	1515.8	1480.0	1475.4	1542.3	1549.3	1423.4	1237.6	1089.8	692.7	31.2	33.5
50°	1408.4	1402.7	1426.9	1496.2	1497.3	1368.0	1189.1	1010.1	609.5	21.9	32.3
52.5°	1374.9	1378.4	1400.3	1436.1	1402.7	1274.5	1101.3	943.2	504.5	17.3	31.2
55°	1242.2	1248.0	1268.7	1290.7	1266.4	1160.2	995.1	862.4	333.6	16.2	28.9
57.5°	935.1	950.1	988.2	1007.8	1010.1	945.5	901.6	743.5	188.2	16.2	27.7
60°	858.9	839.3	822.0	781.6	744.6	736.5	741.2	557.6	69.3	15.0	26.6
62.5°	449.1	439.8	466.4	483.7	488.3	513.7	480.2	294.4	15.0	15.0	24.2
65°	46.2	46.2	56.6	75.0	124.7	166.2	158.2	85.4	10.4	13.9	21.9
67.5°	13.9	13.9	13.9	16.2	20.8	20.8	17.3	12.7	10.4	12.7	19.6
70°	8.1	8.1	8.1	8.1	8.1	8.1	9.2	8.1	9.2	11.5	17.3
72.5°	6.9	6.9	6.9	6.9	8.1	8.1	8.1	8.1	8.1	10.4	15.0
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.9	6.9	8.1	11.5
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.8	5.8	5.8	6.9	9.2
80°	3.5	3.5	3.5	3.5	3.5	4.6	4.6	4.6	4.6	5.8	8.1
82.5°	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5	3.5	4.6	5.8
85°	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	4.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	3.5
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):**

	112.5°	135°	157.5°	180°
0°	125.8	125.8	125.8	125.8
2.5°	114.3	106.2	101.6	99.3
5°	103.9	93.5	90.0	88.9
7.5°	94.7	87.7	86.6	86.6
10°	88.9	84.3	85.4	85.4
12.5°	85.4	84.3	85.4	86.6
15°	82.0	83.1	85.4	85.4
17.5°	79.7	82.0	84.3	85.4
20°	76.2	80.8	84.3	84.3
22.5°	73.9	79.7	83.1	84.3
25°	71.6	77.3	82.0	84.3
27.5°	68.1	76.2	82.0	83.1
30°	64.6	73.9	80.8	84.3
32.5°	61.2	72.7	80.8	83.1
35°	58.9	71.6	80.8	83.1
37.5°	56.6	70.4	80.8	84.3
40°	55.4	69.3	79.7	84.3
42.5°	53.1	69.3	79.7	84.3
45°	52.0	68.1	79.7	84.3
47.5°	50.8	67.0	79.7	84.3
50°	48.5	65.8	78.5	84.3
52.5°	47.3	64.6	78.5	84.3
55°	45.0	63.5	77.3	83.1
57.5°	43.9	61.2	76.2	80.8
60°	41.6	58.9	73.9	78.5
62.5°	38.1	55.4	70.4	76.2
65°	34.6	50.8	67.0	71.6
67.5°	31.2	47.3	62.3	67.0
70°	27.7	42.7	56.6	61.2
72.5°	24.2	36.9	50.8	54.3
75°	20.8	31.2	42.7	47.3
77.5°	16.2	25.4	35.8	39.3
80°	12.7	20.8	27.7	30.0
82.5°	10.4	15.0	20.8	21.9
85°	6.9	9.2	12.7	15.0
87.5°	3.5	4.6	5.8	6.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)