

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: P1312814

Luminaire Tested: LDSQA3D20R159050D010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

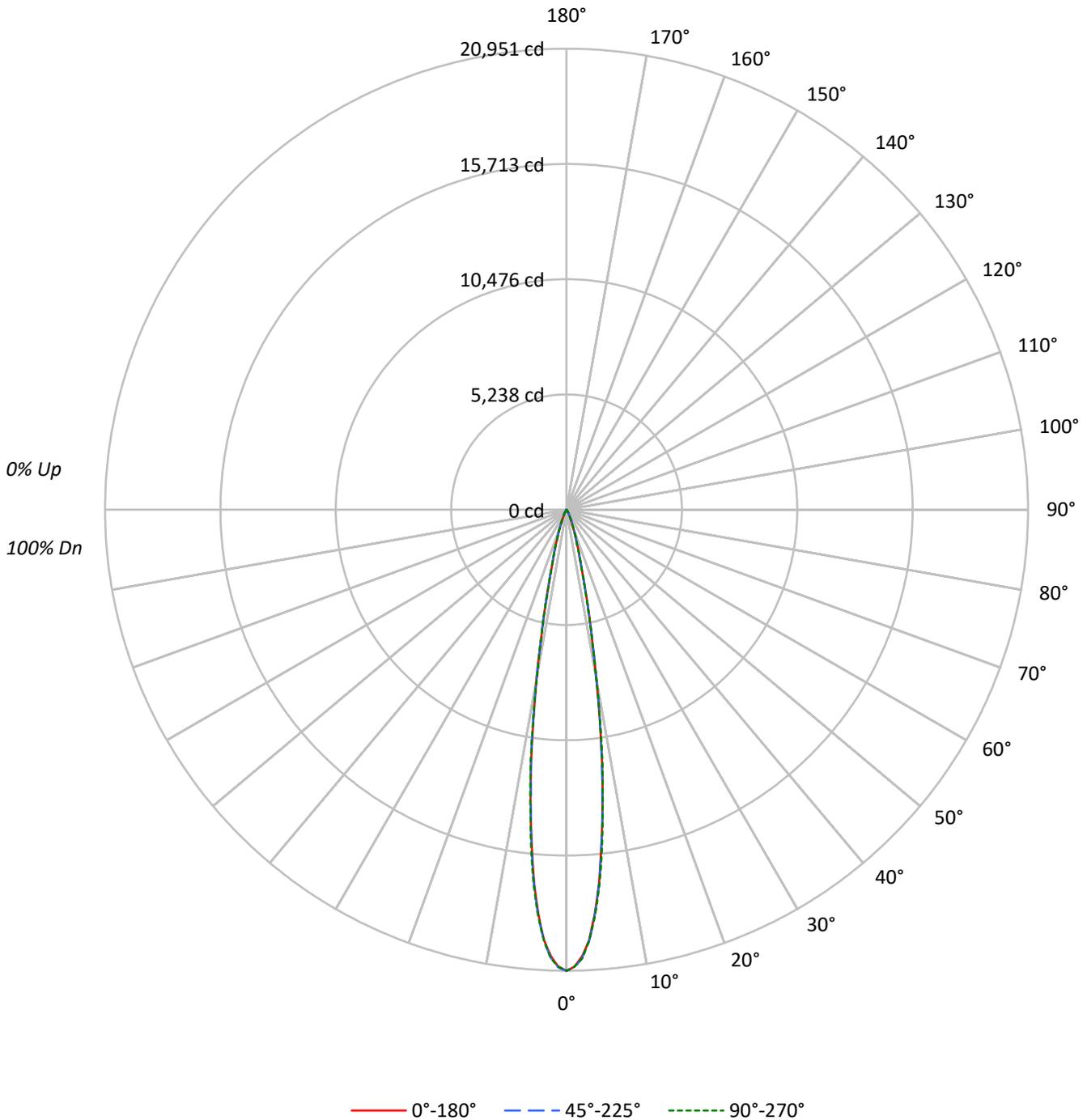
Test Method: LM-79-2019  
Report Number: P1312814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159050D010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2351.9 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 0.29 / 0.3 / 0.29  
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 (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

TEST NUMBER: P1312814  
CATALOG NUMBER: LDSQA3D20R159050D010 3LSQCDR1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1312814  
 CATALOG NUMBER: LDSQA3D20R159050D010 3LSQCDR1MW

**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	116	114	112	111	113	112	110	109	108	107	105	104	103	102	101	100	99	99	98	98	98
2	112	109	107	105	110	108	105	103	105	103	101	102	100	99	99	98	97	99	98	97	96
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	98	96	95	94
4	107	102	99	97	106	101	98	96	100	97	95	98	96	94	96	94	93	96	94	93	92
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	95	93	91	90
6	102	97	94	91	101	97	93	91	95	92	90	94	92	90	93	91	89	93	91	89	88
7	100	95	92	89	99	94	91	89	93	91	89	92	90	88	92	89	88	92	89	88	87
8	98	93	90	87	98	93	89	87	92	89	87	91	88	87	90	88	86	90	88	86	85
9	97	91	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	89	86	85	84
10	95	89	86	84	94	89	86	84	89	86	84	88	85	84	87	85	83	87	85	83	83

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

	0°	45°	90°
0°	3608237	3608237	3608237
5°	2934024	2944224	2954441
10°	1366421	1367715	1360282
15°	422780	437918	429698
20°	168558	178034	166524
25°	70538	83175	67022
30°	28637	38202	26449
35°	9314	17471	8536
40°	3327	7059	3327
45°	1340	2241	1340
50°	991	1474	991
55°	1111	1111	1111
60°	1274	1274	1274
65°	734	734	734
70°	906	906	906
75°	1198	1198	1198
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 2241 cd/sqm



TEST NUMBER: P1312814

CATALOG NUMBER: LDSQA3D20R159050D010 3LSQCDR1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1311.4	55.8
10°-20°	784.1	33.3
20°-30°	199.5	8.5
30°-40°	43.4	1.8
40°-50°	7.0	0.3
50°-60°	3.4	0.1
60°-70°	2.0	0.1
70°-80°	1.2	0.1
80°-90°	0.0	0.0
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°	2295.0	97.6
0°-40°	2338.4	99.4
0°-60°	2348.7	99.9
0°-90°	2351.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2351.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20951	20951	20951	20951	20951	
5°	16971	16995	17030	16953	17090	1309
15°	2371	2438	2456	2421	2410	780
25°	371	397	438	388	353	189
35°	44	57	83	55	41	35
45°	6	7	9	7	6	5
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	2	2	2	2	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1312814  
 CATALOG NUMBER: LDSQA3D20R159050D010 3LSQCDR1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20951.0	20951.0	20951.0	20951.0	20951.0
1°	20768.2	20803.3	20808.8	20803.3	20773.7
2°	20301.0	20404.4	20382.2	20337.9	20400.7
3°	19578.9	19630.6	19623.2	19626.9	19612.2
4°	18404.4	18494.9	18443.2	18482.0	18485.7
5°	16971.4	16995.4	17030.4	16952.9	17089.5
6°	15207.7	15361.0	15226.2	15359.2	15412.7
7°	13414.6	13503.2	13331.5	13423.8	13479.2
8°	11580.8	11425.7	11519.8	11521.7	11704.5
9°	9601.1	9632.5	9711.9	9621.4	9700.8
10°	7813.5	7885.5	7820.9	7789.5	7778.4
11°	6169.9	6251.1	6245.6	6254.8	6193.9
12°	4964.0	4921.5	4949.2	4858.7	4899.3
13°	3863.3	3865.2	3843.0	3806.1	3772.8
14°	3026.8	3008.3	3060.0	3013.8	2971.4
15°	2371.2	2437.7	2456.1	2421.0	2410.0
17.5°	1462.6	1464.4	1490.3	1457.1	1453.4
20°	919.7	941.8	971.4	936.3	908.6
22.5°	581.7	602.0	648.2	603.9	565.1
25°	371.2	397.0	437.7	387.8	352.7
27.5°	232.7	256.7	295.5	249.3	223.5
30°	144.0	160.7	192.1	157.0	133.0
32.5°	83.1	99.7	125.6	94.2	79.4
35°	44.3	57.2	83.1	55.4	40.6
37.5°	25.9	33.2	53.6	29.5	24.0
40°	14.8	20.3	31.4	18.5	14.8
42.5°	9.2	12.9	14.8	11.1	7.4
45°	5.5	7.4	9.2	7.4	5.5
47.5°	3.7	5.5	7.4	3.7	3.7
50°	3.7	3.7	5.5	3.7	3.7
52.5°	3.7	3.7	3.7	3.7	3.7
55°	3.7	3.7	3.7	3.7	3.7
57.5°	3.7	3.7	3.7	3.7	3.7
60°	3.7	3.7	3.7	3.7	3.7
62.5°	1.8	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1312814  
CATALOG NUMBER: LDSQA3D20R159050D010 3LSQCDR1MW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)