

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: P1325980

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,
3LSQPHRL1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

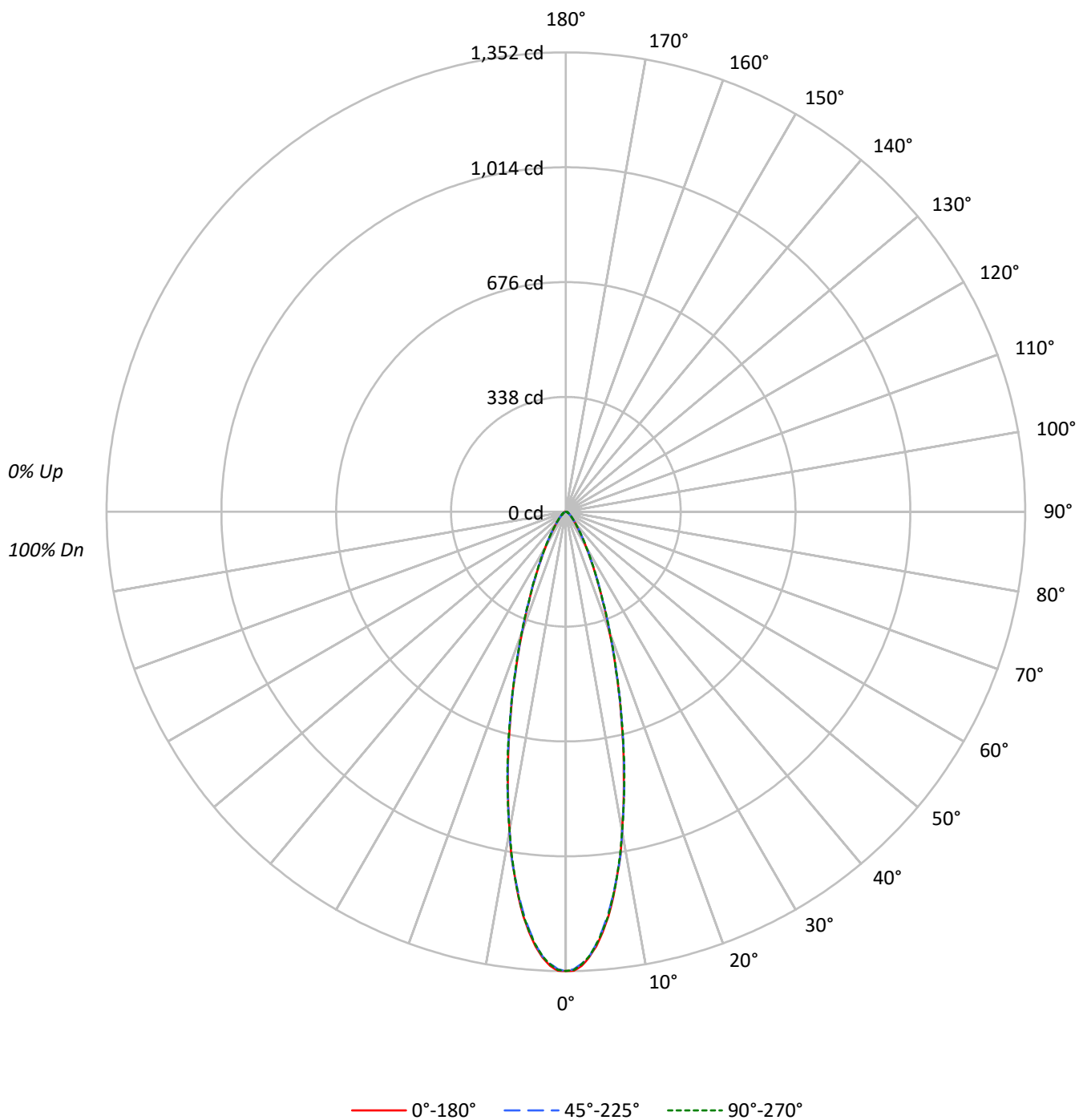
Lumens per Lamp: N/A
Luminaire Lumens: 475.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
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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CATALOG NUMBER: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS_4000K

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
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	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	96	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	90	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	85	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	81	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	77	77	75
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	73	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	70	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	67	67	66
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64	64	64	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	232776	232776	232776
5°	214752	213525	214251
10°	166660	166852	166852
15°	112649	113166	113166
20°	68417	69278	69608
25°	40134	40685	40571
30°	23406	23884	24003
35°	14297	14675	14675
40°	9308	9442	9577
45°	6479	6625	6771
50°	4742	4903	4903
55°	3723	3903	3903
60°	3272	3272	3479
65°	2893	2893	3138
70°	2669	2669	2669
75°	2329	2329	2329
80°	1785	1785	2380
85°	1186	1186	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6771 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	22.9
10°-20°	174.5	36.7
20°-30°	101.1	21.3
30°-40°	45.3	9.5
40°-50°	21.5	4.5
50°-60°	11.8	2.5
60°-70°	7.1	1.5
70°-80°	3.8	0.8
80°-90°	0.8	0.2
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°	384.6	81.0
0°-40°	429.9	90.5
0°-60°	463.2	97.5
0°-90°	475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1242	1238	1235	1238	1239	109
15°	632	632	635	632	635	174
25°	211	211	214	212	214	100
35°	68	69	70	70	70	44
45°	27	27	27	27	28	21
55°	12	12	13	13	13	11
65°	7	7	7	7	8	7
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.6	1351.6	1351.6	1351.6	1351.6
1°	1351.1	1347.5	1346.3	1345.1	1348.7
2°	1337.4	1333.3	1330.9	1332.1	1332.7
3°	1313.2	1310.8	1310.8	1309.1	1310.2
4°	1281.8	1277.1	1277.1	1277.7	1277.7
5°	1242.2	1238.1	1235.1	1237.5	1239.3
6°	1197.8	1192.5	1190.2	1190.8	1194.9
7°	1143.4	1136.3	1137.5	1140.5	1140.5
8°	1081.9	1081.3	1082.5	1081.3	1082.5
9°	1025.1	1016.8	1023.9	1018.0	1021.0
10°	953.0	952.4	954.1	955.9	954.1
12.5°	788.5	791.5	792.7	790.3	795.6
15°	631.8	631.8	634.7	631.8	634.7
17.5°	491.6	491.0	493.3	491.0	494.5
20°	373.3	377.4	378.0	378.0	379.8
22.5°	281.6	281.6	283.9	284.5	283.3
25°	211.2	211.2	214.1	212.4	213.5
27.5°	156.2	157.3	159.7	160.9	160.9
30°	117.7	118.3	120.1	120.7	120.7
32.5°	88.7	89.9	91.1	91.7	92.3
35°	68.0	68.6	69.8	70.4	69.8
37.5°	52.1	52.6	53.8	54.4	54.4
40°	41.4	41.4	42.0	42.6	42.6
42.5°	32.5	33.1	33.1	33.7	33.7
45°	26.6	26.6	27.2	27.2	27.8
47.5°	21.3	21.3	21.9	22.5	22.5
50°	17.7	17.7	18.3	18.3	18.3
52.5°	14.8	14.8	15.4	15.4	15.4
55°	12.4	12.4	13.0	13.0	13.0
57.5°	10.6	10.6	11.2	11.2	11.2
60°	9.5	9.5	9.5	9.5	10.1
62.5°	8.3	8.3	8.3	8.3	8.3
65°	7.1	7.1	7.1	7.1	7.7
67.5°	5.9	5.9	5.9	5.9	6.5
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.1	4.1	4.1	4.7	4.7
75°	3.5	3.5	3.5	3.5	3.5
77.5°	3.0	3.0	3.0	3.0	3.0
80°	1.8	1.8	1.8	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)