

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: P1325965

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQPHR1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R20W2N902750DE010 3LSQPHR1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,
3LSQPHR1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

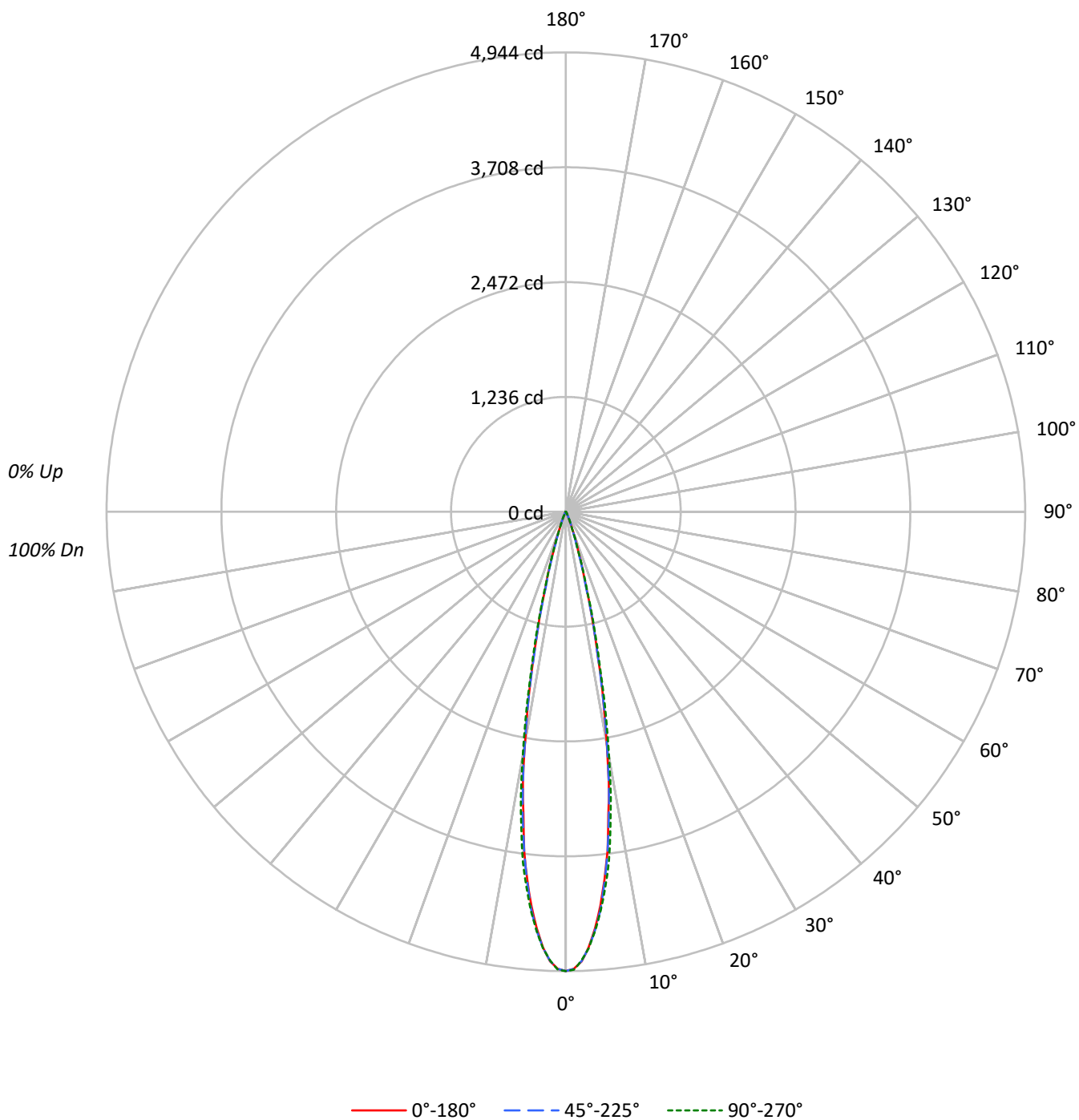
Lumens per Lamp: N/A
Luminaire Lumens: 664.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	851417	851417	851417
5°	735520	742366	745132
10°	442777	446904	469149
15°	153140	149556	161484
20°	40229	37846	37938
25°	8760	10565	12029
30°	3759	3759	3878
35°	2123	1871	1997
40°	922	1057	1192
45°	292	438	438
50°	161	161	161
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 438 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.6	53.3
10°-20°	269.2	40.5
20°-30°	33.3	5.0
30°-40°	6.3	0.9
40°-50°	1.5	0.2
50°-60°	0.1	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	656.1	98.8
0°-40°	662.4	99.8
0°-60°	664.0	100.0
0°-90°	664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4944	4944	4944	4944	4944	
5°	4254	4252	4294	4291	4310	351
15°	859	828	839	889	906	269
25°	46	53	56	58	63	32
35°	10	10	9	10	10	6
45°	1	2	2	2	2	1
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4943.7	4943.7	4943.7	4943.7	4943.7
1°	4920.6	4914.7	4919.4	4909.4	4930.1
2°	4841.9	4836.0	4836.0	4830.1	4833.1
3°	4695.2	4704.7	4698.8	4686.3	4702.3
4°	4495.3	4505.9	4515.4	4516.0	4518.3
5°	4254.5	4251.5	4294.1	4291.2	4310.1
6°	3980.0	3976.5	3994.8	4025.6	4063.4
7°	3678.3	3635.1	3684.2	3746.4	3797.2
8°	3287.9	3299.1	3332.9	3406.2	3447.0
9°	2956.6	2891.0	2962.5	3050.1	3094.5
10°	2531.9	2478.6	2555.5	2647.8	2682.7
12.5°	1593.7	1547.5	1572.4	1669.4	1684.8
15°	858.9	828.2	838.8	889.1	905.7
17.5°	438.3	410.5	404.6	436.6	440.1
20°	219.5	213.0	206.5	209.4	207.0
22.5°	101.7	110.6	109.4	103.5	110.6
25°	46.1	52.6	55.6	58.0	63.3
27.5°	28.4	27.2	31.4	33.7	34.3
30°	18.9	18.3	18.9	19.5	19.5
32.5°	13.6	13.0	12.4	12.4	13.0
35°	10.1	10.1	8.9	9.5	9.5
37.5°	7.1	7.1	6.5	7.1	7.1
40°	4.1	4.7	4.7	4.7	5.3
42.5°	2.4	3.0	3.0	3.0	3.0
45°	1.2	1.8	1.8	1.8	1.8
47.5°	0.6	0.6	0.6	1.2	1.2
50°	0.6	0.6	0.6	0.6	0.6
52.5°	0.6	0.0	0.0	0.0	0.6
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
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
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)