

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: P1327691

Luminaire Tested: LDSQA3D13R20W2N902765DE010 3LSQPHRLP1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R20W2N902765DE010 3LSQPHRLP1MW_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,
3LSQPHRLP1MW TRIM
Light Source: -
Ballast/Driver: -

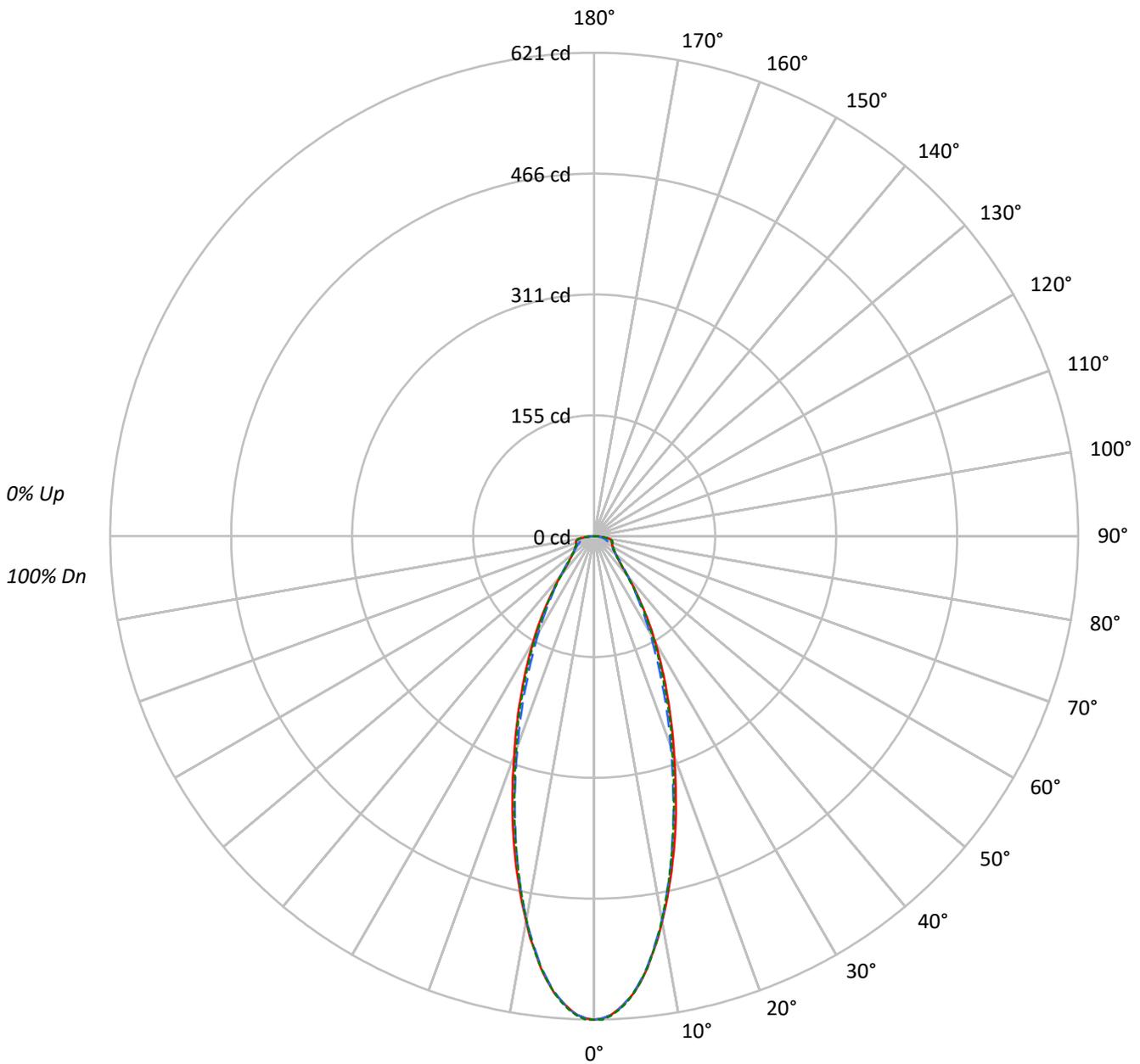
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 438.0 lumens
Efficiency: N/A
Efficacy: 35.6 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.6 / 0.65
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	82	82	82	80
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	74	74	74	72
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	68	68	68	66
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	63	63	63	61
6	82	72	65	60	81	71	65	60	69	64	59	68	63	59	67	62	59	59	59	59	57
7	78	67	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	55	55	55	53
8	74	63	57	52	73	63	57	52	62	56	52	61	55	52	60	55	51	51	51	51	50
9	71	60	53	49	69	59	53	49	58	53	49	58	52	49	57	52	48	48	48	48	47
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	46	46	46	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	106967	106967	106967
5°	101775	101515	101775
10°	87859	87597	87457
15°	71301	69661	69928
20°	54946	52545	53516
25°	41730	38651	40552
30°	30963	28199	30029
35°	21865	20415	21550
40°	15063	15063	14726
45°	11082	11642	11082
50°	9699	9699	9699
55°	9248	9038	9248
60°	9541	8749	9541
65°	10351	8802	10351
70°	12438	8913	12438
75°	15903	9715	15903
80°	19836	9918	19142
85°	15215	9090	16796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 80°
 Luminance: 19836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	12.2
10°-20°	108.8	24.8
20°-30°	97.1	22.2
30°-40°	63.7	14.6
40°-50°	37.1	8.5
50°-60°	27.5	6.3
60°-70°	23.2	5.3
70°-80°	19.2	4.4
80°-90°	8.0	1.8
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°	259.2	59.2
0°-40°	323.0	73.7
0°-60°	387.5	88.5
0°-90°	438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	589	588	587	588	589	53
15°	400	396	391	392	392	111
25°	220	213	203	209	213	101
35°	104	101	97	100	102	66
45°	46	46	48	46	46	37
55°	31	30	30	30	31	28
65°	25	23	22	23	25	25
75°	24	18	15	18	24	24
85°	8	8	5	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	621.1	621.1	621.1	621.1	621.1
1°	619.5	620.3	619.5	620.3	621.1
2°	615.7	616.5	615.7	615.7	616.5
3°	608.0	608.8	608.8	608.8	609.5
4°	598.7	599.5	598.7	599.5	600.3
5°	588.7	587.9	587.2	587.9	588.7
6°	574.8	574.1	573.3	574.1	574.8
7°	559.4	558.7	557.9	557.9	558.7
8°	540.2	540.9	538.6	540.2	540.9
9°	523.2	521.7	520.1	520.1	521.7
10°	502.4	500.9	500.9	500.1	500.1
12.5°	451.6	448.5	446.2	446.2	446.9
15°	399.9	396.1	390.7	391.5	392.2
17.5°	348.3	343.7	336.7	338.3	339.8
20°	299.8	295.1	286.7	289.7	292.0
22.5°	258.1	251.2	243.5	245.8	253.5
25°	219.6	213.4	203.4	208.8	213.4
27.5°	185.7	178.8	170.3	175.7	180.3
30°	155.7	149.5	141.8	146.4	151.0
32.5°	128.7	123.3	117.9	121.0	124.8
35°	104.0	100.9	97.1	100.2	102.5
37.5°	84.0	82.5	80.9	82.5	81.7
40°	67.0	67.8	67.0	67.0	65.5
42.5°	53.2	55.5	56.3	54.7	53.2
45°	45.5	46.2	47.8	46.2	45.5
47.5°	40.1	40.1	40.8	40.1	39.3
50°	36.2	36.2	36.2	36.2	36.2
52.5°	33.1	33.1	32.4	33.1	33.1
55°	30.8	30.1	30.1	30.1	30.8
57.5°	29.3	28.5	27.7	28.5	29.3
60°	27.7	26.2	25.4	26.2	27.7
62.5°	26.2	24.7	23.9	24.7	26.2
65°	25.4	23.1	21.6	23.1	25.4
67.5°	24.7	21.6	20.0	21.6	25.4
70°	24.7	20.0	17.7	20.8	24.7
72.5°	23.9	19.3	16.2	19.3	23.9
75°	23.9	17.7	14.6	17.7	23.9
77.5°	22.3	16.2	12.3	16.2	22.3
80°	20.0	14.6	10.0	14.6	19.3
82.5°	14.6	12.3	7.7	12.3	14.6
85°	7.7	8.5	4.6	8.5	8.5
87.5°	0.8	3.1	1.5	4.6	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)