

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: P1327684

Luminaire Tested: LDSQA3D13R20W2N902765DE010 3LSQPHRLD1MW_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R20W2N902765DE010 3LSQPHRLD1MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,
3LSQPHRLD1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

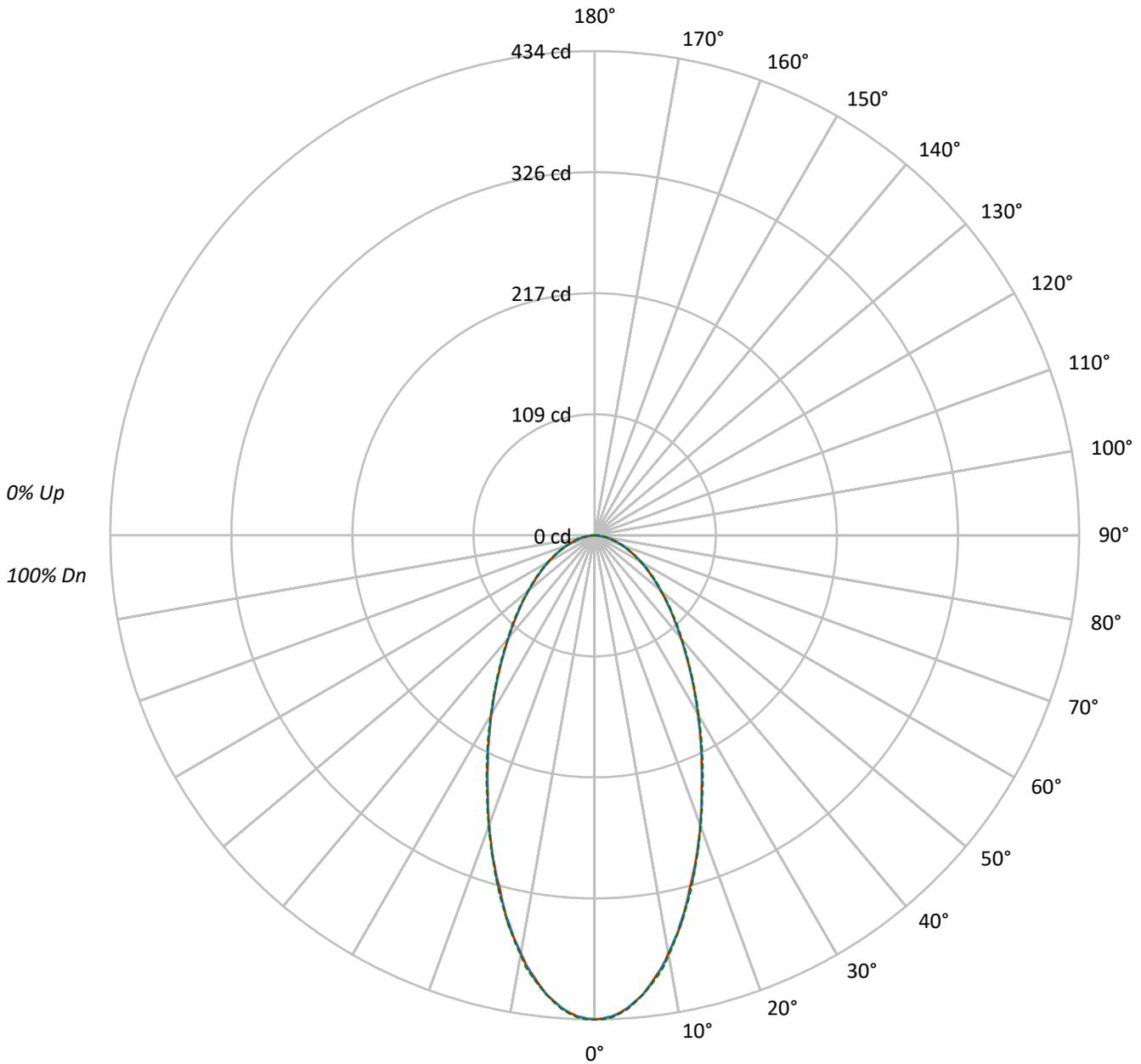
Lumens per Lamp: N/A
Luminaire Lumens: 519.0 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.86
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	79	79	79	77
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	74	70	70	70	70	68
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	63	63	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	47	47	47	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	40	40	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	37	37	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	74727	74727	74727
5°	72472	72472	72610
10°	66524	66664	66804
15°	58571	58856	58999
20°	50694	50694	50841
25°	43136	43136	43440
30°	36830	36671	36989
35°	31432	31432	31600
40°	27001	27001	27181
45°	23601	23601	23771
50°	20765	20765	20765
55°	18376	18376	18616
60°	16533	16533	16533
65°	14833	14833	14833
70°	13243	13243	13243
75°	11844	11312	11844
80°	10017	10017	10017
85°	6126	6126	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 23771 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	7.5
10°-20°	91.9	17.7
20°-30°	104.6	20.2
30°-40°	93.9	18.1
40°-50°	75.3	14.5
50°-60°	55.3	10.7
60°-70°	36.1	7.0
70°-80°	18.7	3.6
80°-90°	4.4	0.8
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°	235.3	45.3
0°-40°	329.2	63.4
0°-60°	459.8	88.6
0°-90°	519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	434	434	434	434	434	
5°	419	419	419	419	420	39
15°	328	328	330	330	331	92
25°	227	227	227	228	229	104
35°	150	150	150	150	150	94
45°	97	97	97	97	98	75
55°	61	61	61	61	62	55
65°	36	36	36	36	36	36
75°	18	17	17	18	18	19
85°	3	3	3	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	433.9	433.9	433.9	433.9	433.9
1°	433.1	432.4	433.1	433.1	433.9
2°	431.6	431.6	431.6	430.8	432.4
3°	428.5	428.5	429.3	428.5	429.3
4°	424.6	424.6	424.6	423.8	425.4
5°	419.2	419.2	419.2	419.2	420.0
6°	413.8	413.0	413.8	413.0	413.8
7°	406.0	406.0	406.8	406.0	406.8
8°	398.3	397.5	399.0	398.3	399.8
9°	390.5	389.7	390.5	389.7	392.1
10°	380.4	381.2	381.2	381.2	382.0
12.5°	357.2	355.6	355.6	355.6	357.2
15°	328.5	328.5	330.1	330.1	330.9
17.5°	303.0	302.2	303.7	303.7	303.7
20°	276.6	275.8	276.6	276.6	277.4
22.5°	250.3	251.0	251.0	251.0	251.8
25°	227.0	227.0	227.0	227.8	228.6
27.5°	205.3	204.6	205.3	206.1	206.9
30°	185.2	184.4	184.4	185.2	186.0
32.5°	166.6	165.8	166.6	166.6	167.4
35°	149.5	149.5	149.5	149.5	150.3
37.5°	134.0	134.0	134.0	134.8	134.8
40°	120.1	120.1	120.1	120.9	120.9
42.5°	107.7	107.7	107.7	108.5	109.3
45°	96.9	96.9	96.9	96.9	97.6
47.5°	86.8	86.8	86.8	87.6	87.6
50°	77.5	76.7	77.5	78.3	77.5
52.5°	69.0	69.0	69.0	69.0	69.7
55°	61.2	61.2	61.2	61.2	62.0
57.5°	54.2	54.2	54.2	55.0	55.0
60°	48.0	48.0	48.0	48.0	48.0
62.5°	41.8	41.8	41.8	41.8	41.8
65°	36.4	35.6	36.4	36.4	36.4
67.5°	31.0	31.0	31.0	31.0	31.0
70°	26.3	26.3	26.3	26.3	26.3
72.5°	21.7	21.7	21.7	21.7	21.7
75°	17.8	17.0	17.0	17.8	17.8
77.5°	13.9	13.2	13.9	13.9	13.9
80°	10.1	10.1	10.1	10.1	10.1
82.5°	6.2	6.2	6.2	7.0	7.0
85°	3.1	3.1	3.1	3.9	3.9
87.5°	0.8	0.8	0.8	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)