

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: P738957

Luminaire Tested: LD4D02D010-EU4DR200210IC9040-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR200210IC9040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 369.2 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



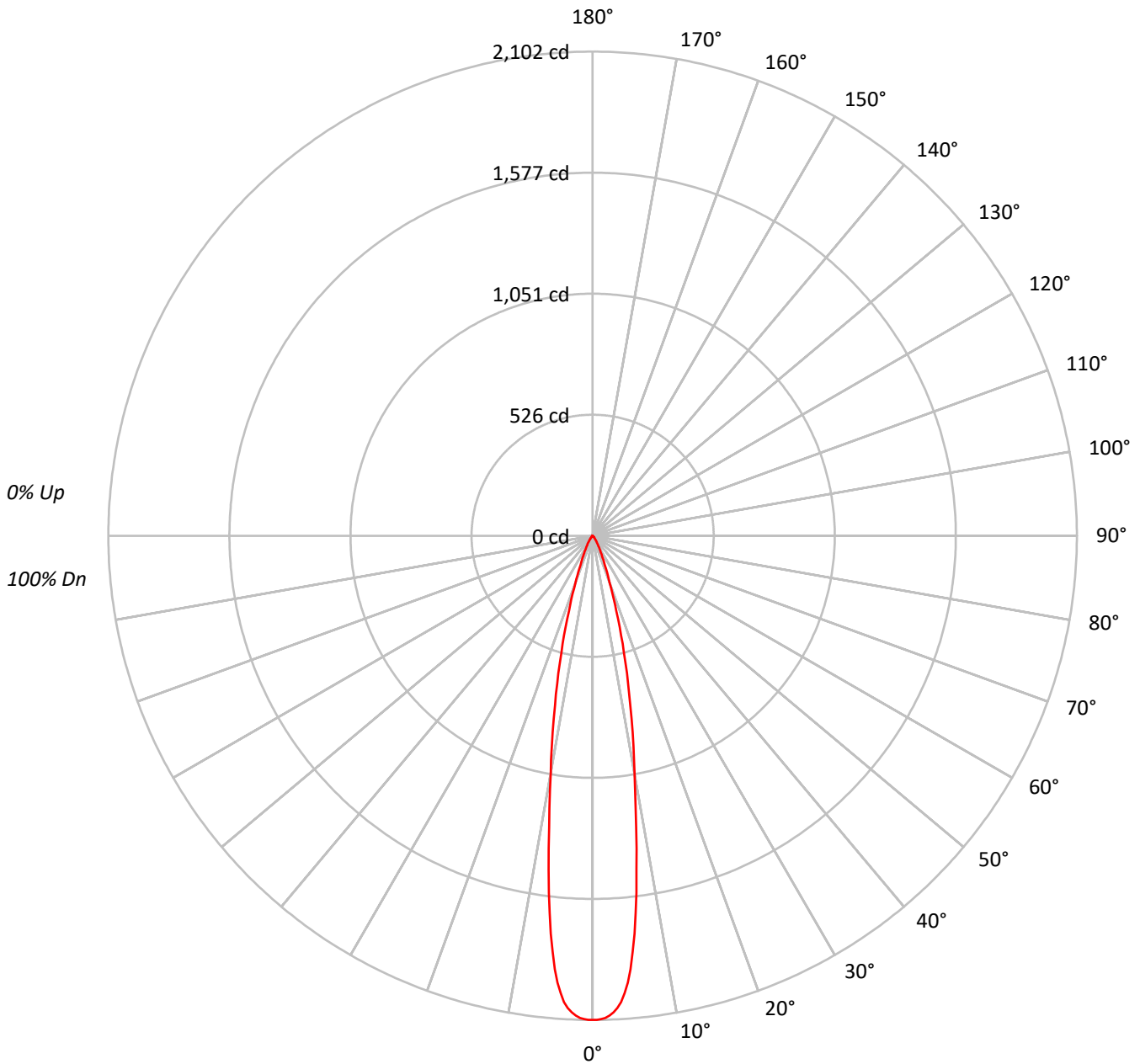
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	100									100																		
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	98	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75				
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75								
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75											
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75														
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	84	83	82	81	80	79	78	77	76	75																	
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	82	81	80	79	78	77	76	75																			
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	80	79	78	77	76	75																					
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	78	77	76	75																							
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	76	75																									
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	229633
5°	207171
10°	116272
15°	59103
20°	25022
25°	11549
30°	6119
35°	3295
40°	1769
45°	1035
50°	612
55°	324
60°	197
65°	155
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1035 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	40.5
10°-20°	147.3	39.9
20°-30°	48.1	13.0
30°-40°	16.4	4.4
40°-50°	5.5	1.5
50°-60°	1.7	0.4
60°-70°	0.6	0.2
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°	345.1	93.5
0°-40°	361.5	97.9
0°-60°	368.7	99.8
0°-90°	369.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	369.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2102	
5°	1889	150
15°	522	147
25°	96	48
35°	25	16
45°	7	6
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2101.7
0.5°	2101.7
1°	2099.0
1.5°	2093.8
2°	2084.3
2.5°	2071.5
3°	2053.6
3.5°	2028.5
4°	1991.2
4.5°	1946.0
5°	1888.9
5.5°	1813.8
6°	1736.9
6.5°	1648.8
7°	1562.5
7.5°	1461.4
8°	1371.2
8.5°	1280.5
9°	1196.6
9.5°	1119.7
10°	1048.0
12.5°	752.5
15°	522.5
17.5°	341.4
20°	215.2
22.5°	139.4
25°	95.8
27.5°	67.4
30°	48.5
32.5°	34.8
35°	24.7
37.5°	17.2
40°	12.4
42.5°	9.0
45°	6.7
47.5°	5.2
50°	3.6
52.5°	2.2
55°	1.7
57.5°	1.3
60°	0.9
62.5°	0.7
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180°

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67.5°		0.4
70°		0.2

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Scaled Data Report



(END OF REPORT)