

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: P738958

Luminaire Tested: LD4D02D010-EU4DR200210IC9040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738958
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-EU4DR200210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 394.6 lumens
Efficiency: N/A
Efficacy: 77.4 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 (A_{in}): 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

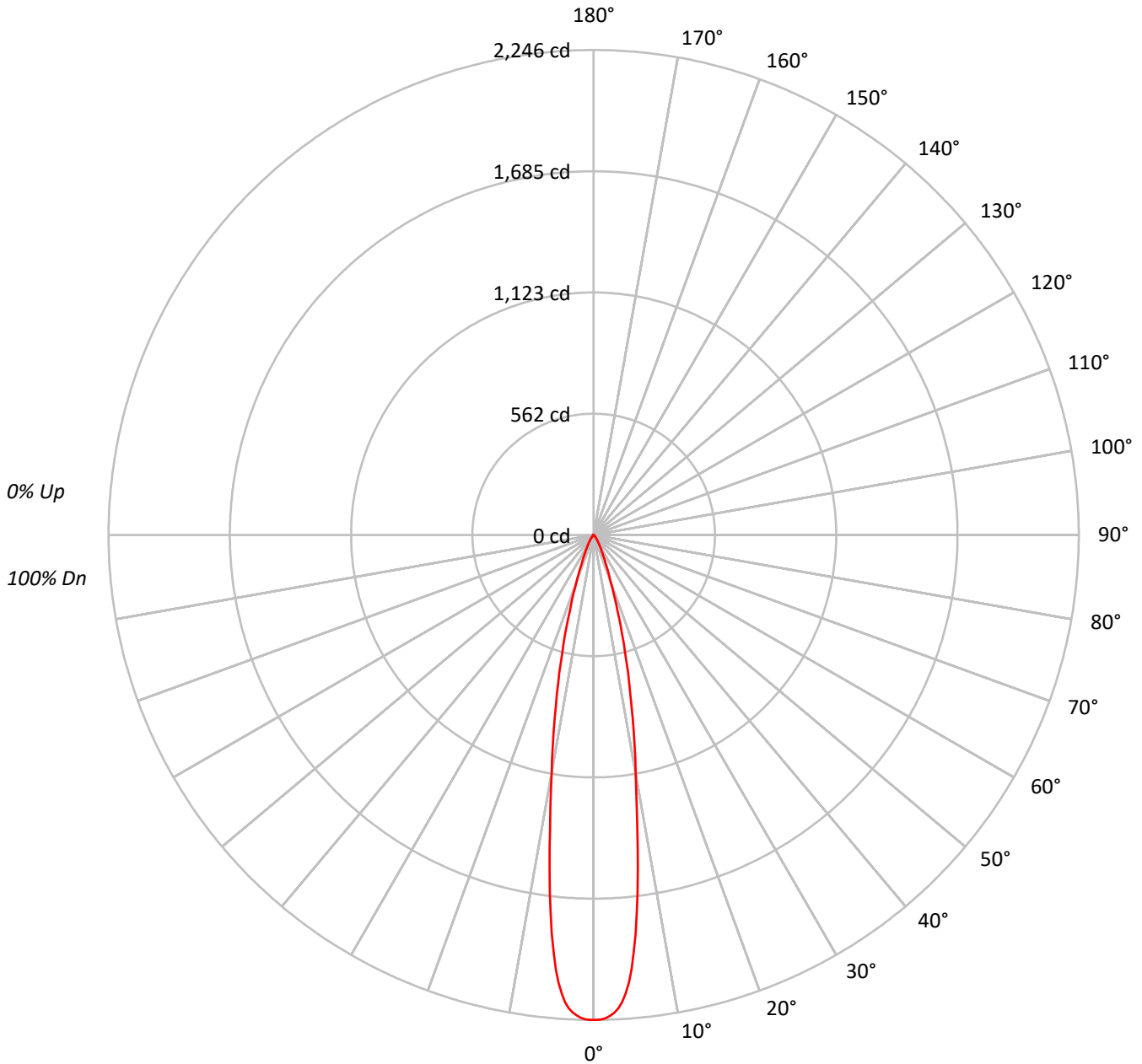


Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	245432
5°	221418
10°	124271
15°	63175
20°	26743
25°	12345
30°	6535
35°	3521
40°	1883
45°	1113
50°	646
55°	343
60°	219
65°	155
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1113 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	40.5
10°-20°	157.5	39.9
20°-30°	51.4	13.0
30°-40°	17.5	4.4
40°-50°	5.9	1.5
50°-60°	1.8	0.4
60°-70°	0.6	0.1
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°	368.8	93.5
0°-40°	386.4	97.9
0°-60°	394.0	99.8
0°-90°	394.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	394.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2246	
5°	2019	160
15°	558	157
25°	102	51
35°	26	18
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°	2246.3
0.5°	2246.3
1°	2243.5
1.5°	2237.9
2°	2227.7
2.5°	2214.0
3°	2194.8
3.5°	2168.0
4°	2128.2
4.5°	2079.8
5°	2018.8
5.5°	1938.6
6°	1856.4
6.5°	1762.2
7°	1670.0
7.5°	1562.0
8°	1465.6
8.5°	1368.6
9°	1278.9
9.5°	1196.7
10°	1120.1
12.5°	804.3
15°	558.5
17.5°	364.8
20°	230.0
22.5°	149.0
25°	102.4
27.5°	72.0
30°	51.8
32.5°	37.2
35°	26.4
37.5°	18.4
40°	13.2
42.5°	9.6
45°	7.2
47.5°	5.6
50°	3.8
52.5°	2.4
55°	1.8
57.5°	1.4
60°	1.0
62.5°	0.8
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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— 0°-180°

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67.5°		0.4
70°		0.2

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(END OF REPORT)