

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: P738967

Luminaire Tested: LD4D02D010-EU4DR200210IC9050-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738967
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-EU4DR200210IC9050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 339.4 lumens
Efficiency: N/A
Efficacy: 66.6 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



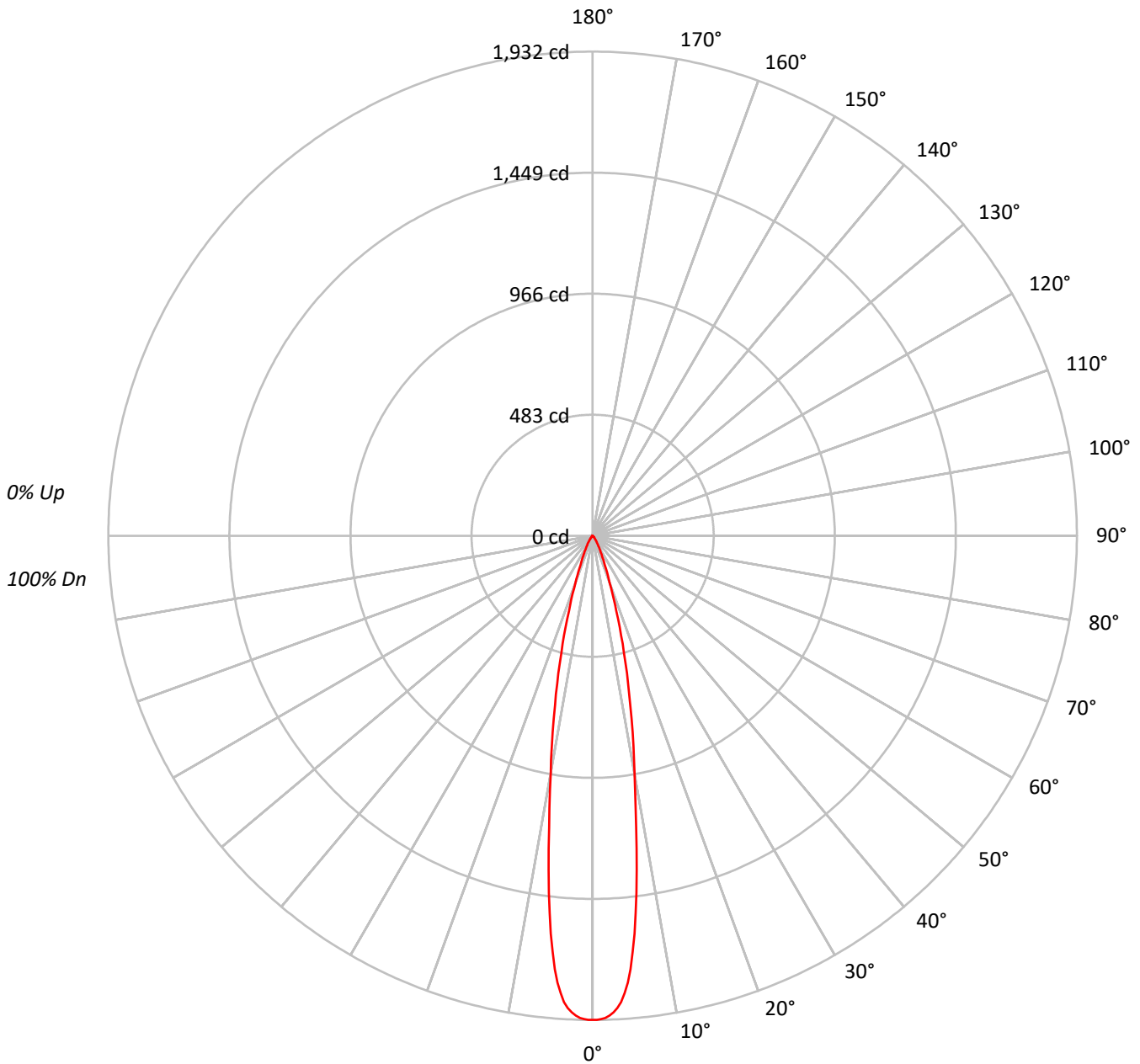
Downlight



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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	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														
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	92	91	91	91														
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	89	88	88	88														
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	86	85	85	85														
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	83	83	83	83														
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	81	81	81	81														
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	79	79	79	79														
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	77	77	77	77														
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	75	75	75	75														
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	73	73	73	73														

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	211059
5°	190423
10°	106875
15°	54329
20°	22999
25°	10621
30°	5627
35°	3028
40°	1626
45°	958
50°	561
55°	286
60°	197
65°	129
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 958 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	40.5
10°-20°	135.4	39.9
20°-30°	44.3	13.0
30°-40°	15.1	4.4
40°-50°	5.1	1.5
50°-60°	1.5	0.5
60°-70°	0.5	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°	317.2	93.5
0°-40°	332.3	97.9
0°-60°	338.9	99.8
0°-90°	339.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	339.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1932	
5°	1736	138
15°	480	135
25°	88	44
35°	23	15
45°	6	5
55°	2	2
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1931.7
0.5°	1931.7
1°	1929.3
1.5°	1924.5
2°	1915.7
2.5°	1904.1
3°	1887.5
3.5°	1864.5
4°	1830.3
4.5°	1788.6
5°	1736.2
5.5°	1667.2
6°	1596.5
6.5°	1515.5
7°	1436.2
7.5°	1343.3
8°	1260.4
8.5°	1176.9
9°	1099.9
9.5°	1029.2
10°	963.3
12.5°	691.7
15°	480.3
17.5°	313.8
20°	197.8
22.5°	128.2
25°	88.1
27.5°	61.9
30°	44.6
32.5°	32.0
35°	22.7
37.5°	15.8
40°	11.4
42.5°	8.3
45°	6.2
47.5°	4.8
50°	3.3
52.5°	2.1
55°	1.5
57.5°	1.2
60°	0.9
62.5°	0.7
65°	0.5



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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°		0.3
70°		0.2

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(END OF REPORT)