

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: P739968

Luminaire Tested: LD4D05D010-EU4DR200210IC9040-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739968
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: LD4D05D010-EU4DR200210IC9040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 626.1 lumens
Efficiency: N/A
Efficacy: 83.5 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): 7.5
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



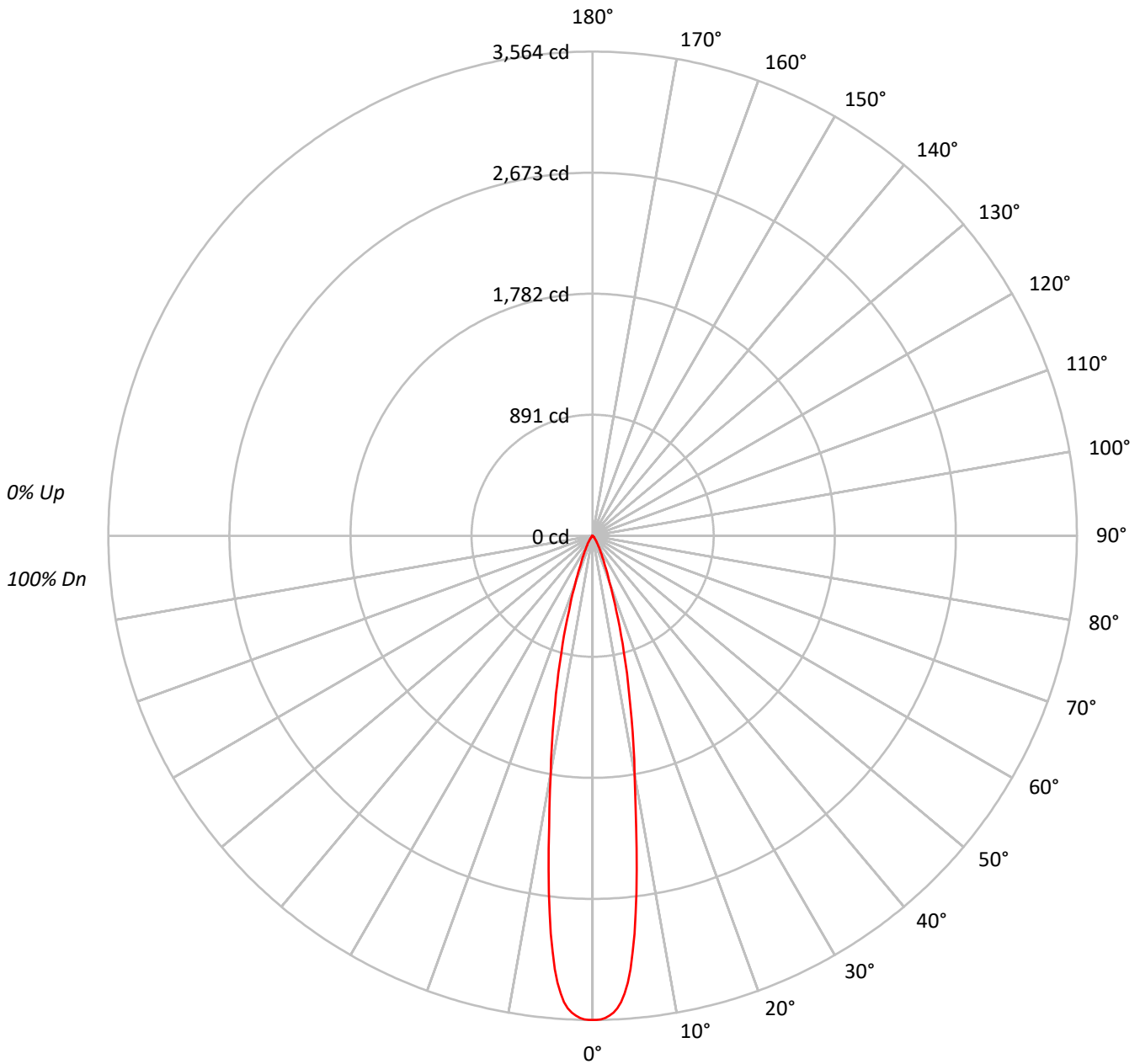
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	389405
5°	351310
10°	197174
15°	100231
20°	42440
25°	19590
30°	10371
35°	5589
40°	2981
45°	1762
50°	1020
55°	552
60°	350
65°	259
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1762 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	40.5
10°-20°	249.9	39.9
20°-30°	81.6	13.0
30°-40°	27.8	4.4
40°-50°	9.3	1.5
50°-60°	2.8	0.4
60°-70°	0.9	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°	585.2	93.5
0°-40°	613.0	97.9
0°-60°	625.2	99.8
0°-90°	626.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	626.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3564	
5°	3203	254
15°	886	250
25°	162	82
35°	42	28
45°	11	9
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3564.0
0.5°	3564.0
1°	3559.5
1.5°	3550.6
2°	3534.5
2.5°	3512.9
3°	3482.4
3.5°	3439.9
4°	3376.7
4.5°	3299.9
5°	3203.1
5.5°	3075.9
6°	2945.4
6.5°	2796.0
7°	2649.6
7.5°	2478.3
8°	2325.3
8.5°	2171.4
9°	2029.2
9.5°	1898.8
10°	1777.2
12.5°	1276.1
15°	886.1
17.5°	578.9
20°	365.0
22.5°	236.4
25°	162.5
27.5°	114.2
30°	82.2
32.5°	59.0
35°	41.9
37.5°	29.2
40°	20.9
42.5°	15.2
45°	11.4
47.5°	8.9
50°	6.0
52.5°	3.8
55°	2.9
57.5°	2.2
60°	1.6
62.5°	1.3
65°	1.0



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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°		0.6
70°		0.3

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(END OF REPORT)