

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: P743853

Luminaire Tested: LD4D20D010-EU4DR1015209050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1015209050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 10° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940.6 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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

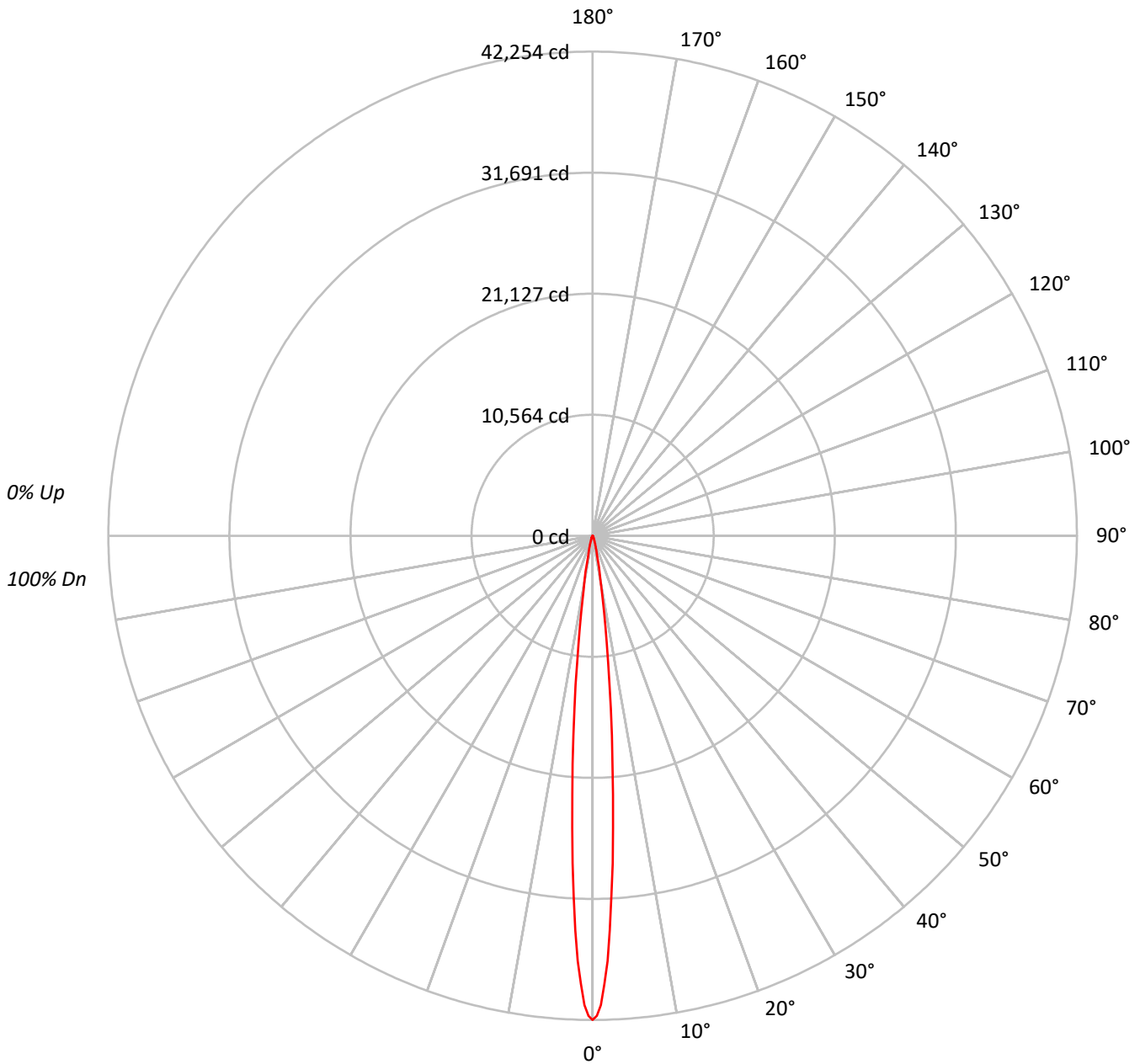


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	116	114	113	111	114	112	111	109	108	107	106	104	104	103	101	101	100	98			98																
2	113	110	108	106	111	108	106	104	105	104	102	103	101	100	100	99	98	97			97																
3	111	107	104	102	109	106	103	101	103	101	99	101	99	98	99	98	96	95			95																
4	108	104	101	99	107	103	100	98	101	99	97	99	97	96	98	96	95	94			94																
5	106	102	99	96	105	101	98	96	99	97	95	98	96	94	97	95	94	93			93																
6	104	100	96	94	103	99	96	94	98	95	93	97	94	93	96	94	92	91			91																
7	103	98	95	93	102	97	94	92	96	94	92	95	93	92	95	93	91	90			90																
8	101	96	93	91	100	96	93	91	95	92	91	94	92	90	93	92	90	89			89																
9	100	95	92	90	99	94	92	90	94	91	90	93	91	89	93	91	89	88			88																
10	98	94	91	89	98	93	91	89	93	90	88	92	90	88	92	90	88	87			87																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4616693
5°	2189219
10°	448977
15°	123261
20°	49672
25°	26619
30°	15745
35°	10244
40°	6846
45°	4450
50°	2448
55°	1829
60°	1049
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4450 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1379.9	71.1
10°-20°	373.4	19.2
20°-30°	106.9	5.5
30°-40°	48.8	2.5
40°-50°	22.4	1.2
50°-60°	7.5	0.4
60°-70°	1.7	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°	1860.2	95.9
0°-40°	1909.0	98.4
0°-60°	1938.9	99.9
0°-90°	1940.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	42254	
5°	19960	###
15°	1090	373
25°	221	107
35°	77	49
45°	29	22
55°	10	7
65°	0	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	42253.9
0.5°	41889.1
1°	40953.0
1.5°	39148.0
2°	37127.0
2.5°	34457.9
3°	31491.2
3.5°	28620.5
4°	25524.2
4.5°	22672.7
5°	19960.4
5.5°	17502.6
6°	15160.0
6.5°	13100.5
7°	11161.1
7.5°	9505.0
8°	8036.0
8.5°	6749.5
9°	5635.8
9.5°	4786.1
10°	4046.8
12.5°	1929.8
15°	1089.7
17.5°	662.5
20°	427.2
22.5°	297.6
25°	220.8
27.5°	163.2
30°	124.8
32.5°	96.0
35°	76.8
37.5°	57.6
40°	48.0
42.5°	38.4
45°	28.8
47.5°	19.2
50°	14.4
52.5°	9.6
55°	9.6
57.5°	4.8
60°	4.8
62.5°	4.8
65°	0.0



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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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Scaled Data Report





67.5°		0.0
70°		0.0

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Scaled Data Report



(END OF REPORT)