

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: P745809

Luminaire Tested: LD4D30D010-EU4DR2015309024-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745809
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: LD4D30D010-EU4DR2015309024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2314.0 lumens
Efficiency: N/A
Efficacy: 79.8 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): 29
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

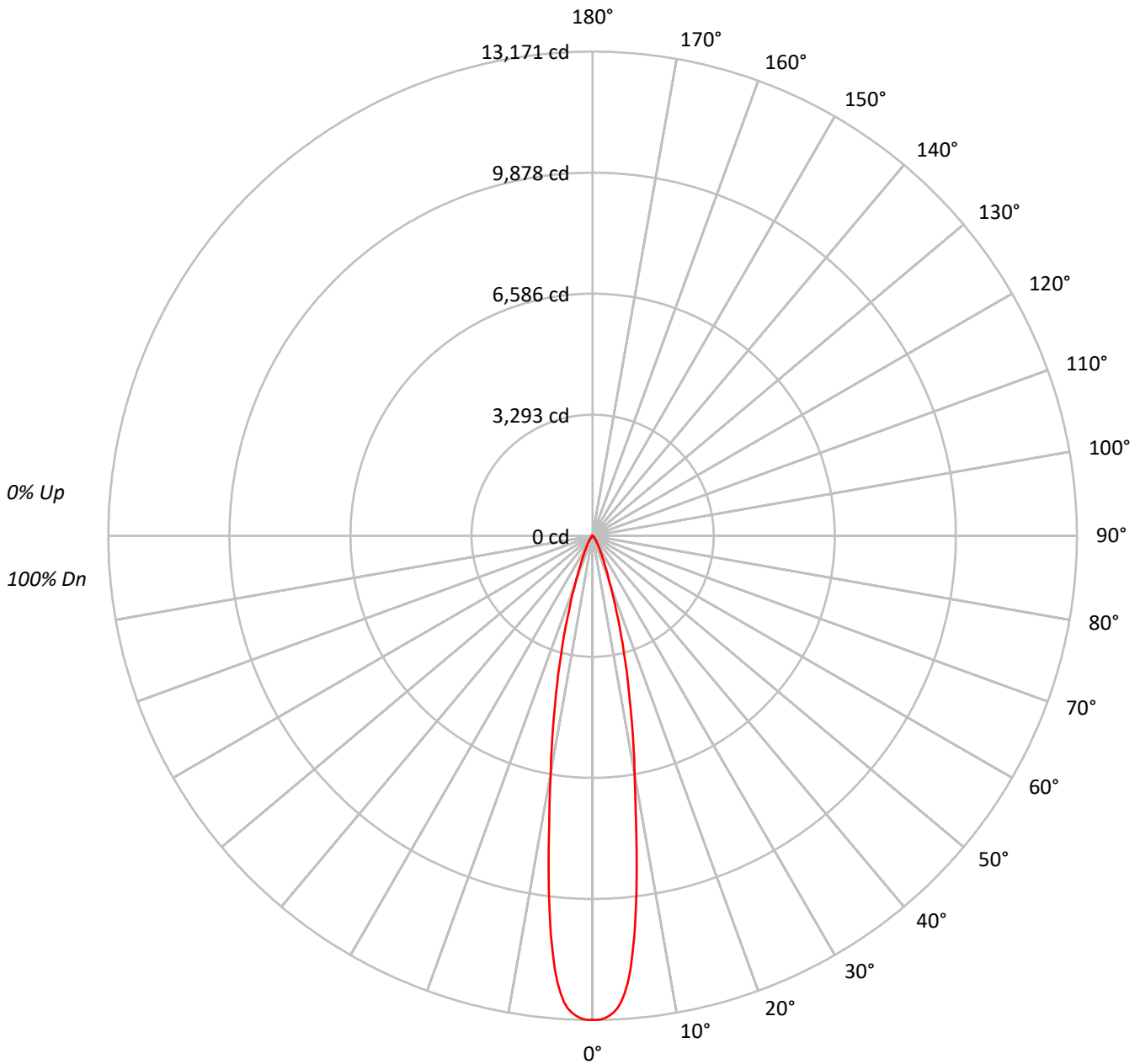


Downlight



TEST NUMBER: P745809
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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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	97																
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	98	96	95																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	95	93	92																
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	93	91	89																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	91	88	86																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	88	86	84																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	86	84	82																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	84	82	80																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	82	80	78																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	81	78	76																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1439062
5°	1298304
10°	728684
15°	370395
20°	156829
25°	72394
30°	38328
35°	20648
40°	11040
45°	6521
50°	3791
55°	2019
60°	1289
65°	905
70°	383
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6521 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.7	40.5
10°-20°	923.4	39.9
20°-30°	301.7	13.0
30°-40°	102.7	4.4
40°-50°	34.5	1.5
50°-60°	10.4	0.5
60°-70°	3.5	0.1
70°-80°	0.2	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°	2162.8	93.5
0°-40°	2265.5	97.9
0°-60°	2310.4	99.8
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13171	
5°	11837	938
15°	3274	923
25°	600	302
35°	155	103
45°	42	35
55°	11	10
65°	4	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13170.9
0.5°	13170.9
1°	13154.5
1.5°	13121.6
2°	13061.8
2.5°	12982.1
3°	12869.5
3.5°	12712.3
4°	12478.9
4.5°	12195.1
5°	11837.4
5.5°	11367.1
6°	10885.0
6.5°	10332.6
7°	9792.0
7.5°	9158.6
8°	8593.3
8.5°	8024.5
9°	7499.1
9.5°	7017.0
10°	6567.9
12.5°	4716.0
15°	3274.5
17.5°	2139.2
20°	1348.8
22.5°	873.8
25°	600.5
27.5°	422.2
30°	303.8
32.5°	218.1
35°	154.8
37.5°	107.9
40°	77.4
42.5°	56.3
45°	42.2
47.5°	32.8
50°	22.3
52.5°	14.1
55°	10.6
57.5°	8.2
60°	5.9
62.5°	4.7
65°	3.5



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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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Scaled Data Report





67.5°		2.3
70°		1.2

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Scaled Data Report



(END OF REPORT)