

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: P744013

Luminaire Tested: LD4D20D010-EU4DR2015309050-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744013
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: LD4D20D010-EU4DR2015309050-4LBSQW1B
Description: 4 INCH SQAURE 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: 1674.3 lumens
Efficiency: N/A
Efficacy: 72.5 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): 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



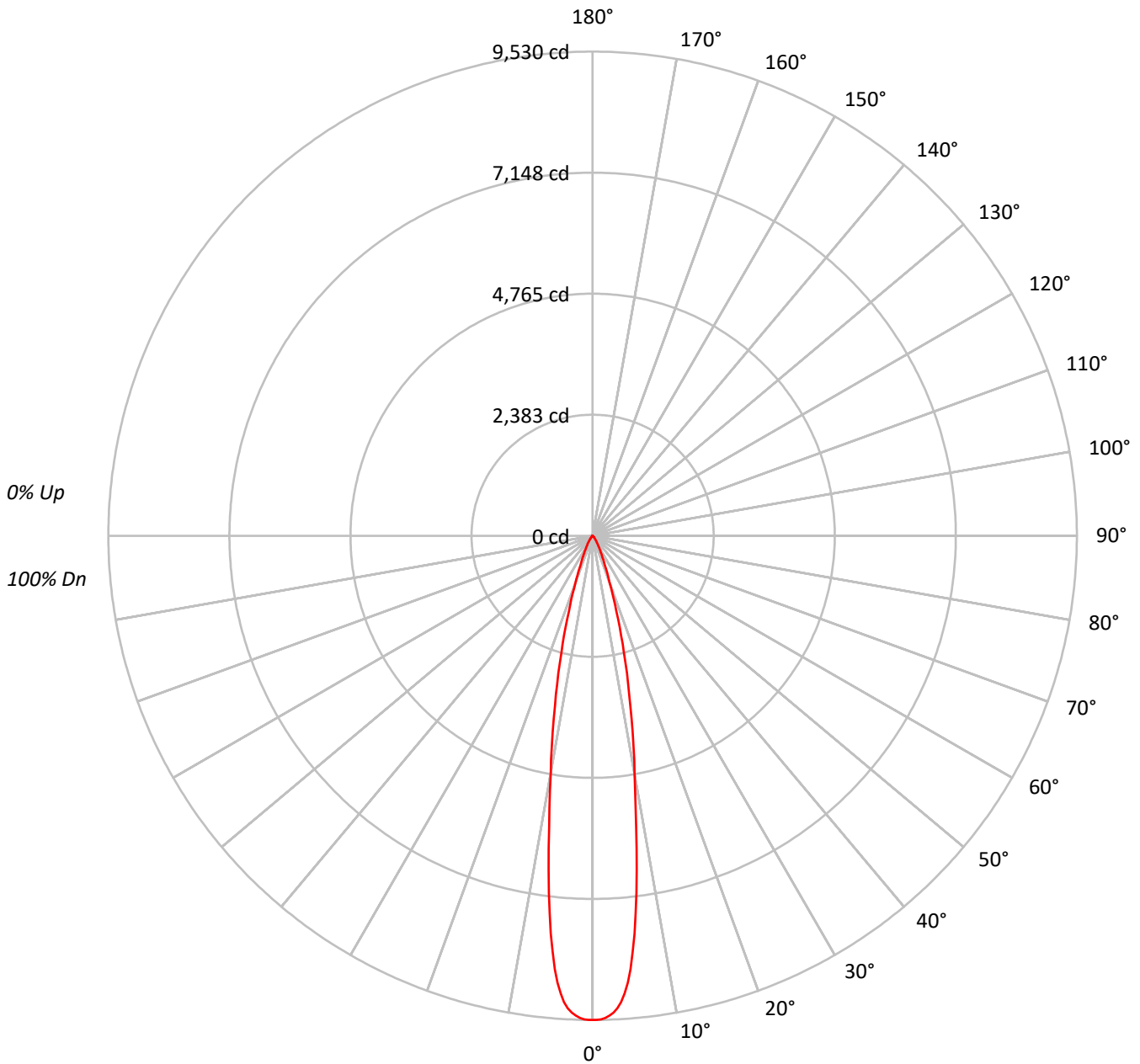
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1041288
5°	939437
10°	527261
15°	268015
20°	113471
25°	52382
30°	27731
35°	14939
40°	7987
45°	4728
50°	2737
55°	1448
60°	918
65°	646
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.5	40.5
10°-20°	668.1	39.9
20°-30°	218.3	13.0
30°-40°	74.3	4.4
40°-50°	25.0	1.5
50°-60°	7.5	0.4
60°-70°	2.5	0.1
70°-80°	0.1	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°	1564.9	93.5
0°-40°	1639.3	97.9
0°-60°	1671.7	99.8
0°-90°	1674.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9530	
5°	8565	679
15°	2369	668
25°	434	218
35°	112	74
45°	31	25
55°	8	8
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9530.3
0.5°	9530.3
1°	9518.4
1.5°	9494.6
2°	9451.3
2.5°	9393.6
3°	9312.2
3.5°	9198.4
4°	9029.6
4.5°	8824.2
5°	8565.4
5.5°	8225.0
6°	7876.3
6.5°	7476.5
7°	7085.3
7.5°	6627.1
8°	6218.0
8.5°	5806.4
9°	5426.2
9.5°	5077.4
10°	4752.4
12.5°	3412.4
15°	2369.4
17.5°	1547.9
20°	975.9
22.5°	632.2
25°	434.5
27.5°	305.5
30°	219.8
32.5°	157.8
35°	112.0
37.5°	78.1
40°	56.0
42.5°	40.7
45°	30.6
47.5°	23.8
50°	16.1
52.5°	10.2
55°	7.6
57.5°	5.9
60°	4.2
62.5°	3.4
65°	2.5



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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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— 0°-180°

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67.5°		1.7
70°		0.8

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(END OF REPORT)