

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: P743988

Luminaire Tested: LD4D20D010-EU4DR2015309035-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743988
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-EU4DR2015309035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.6 lumens
Efficiency: N/A
Efficacy: 77.2 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 (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



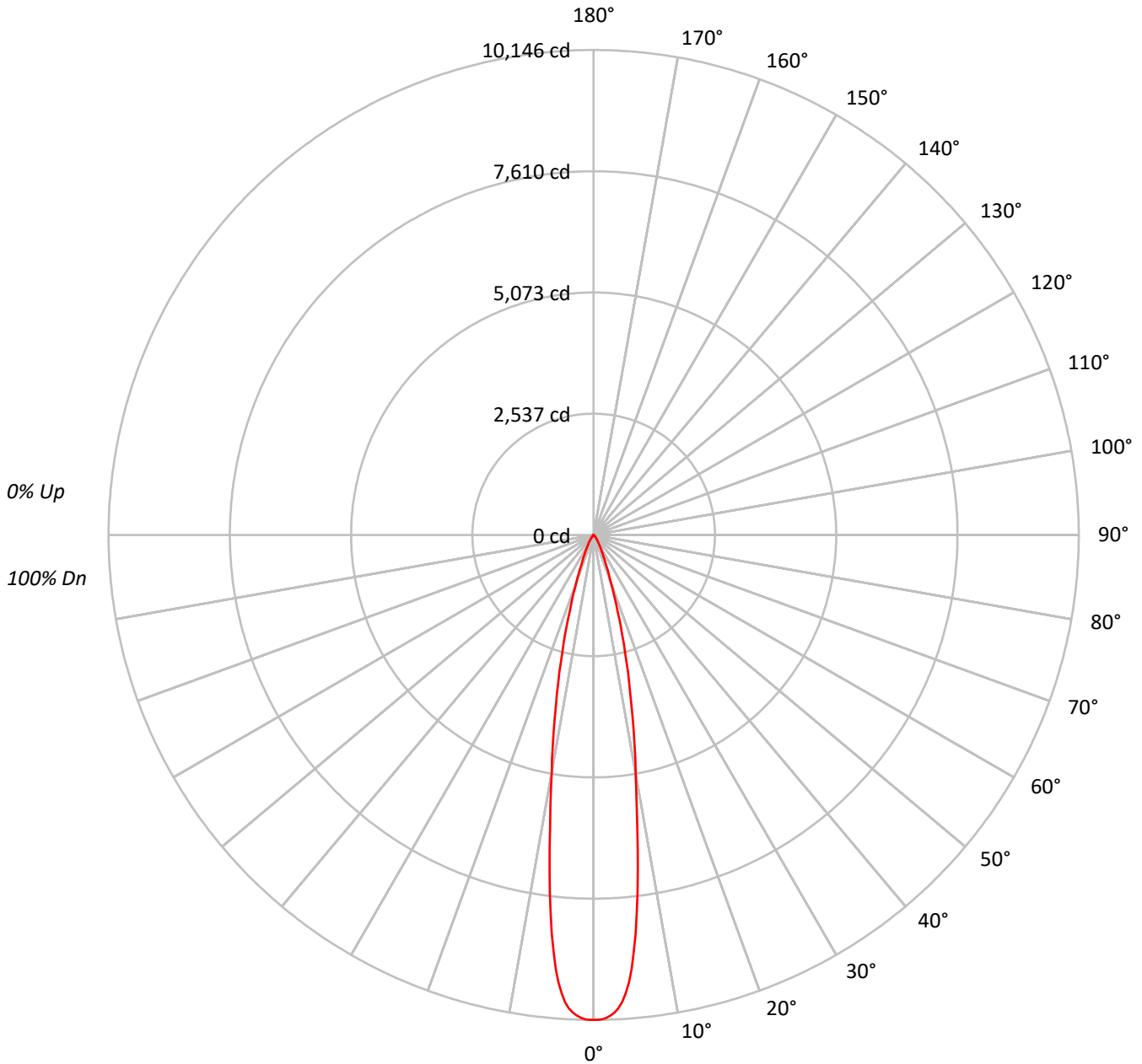
Downlight



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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									70									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	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	100	100	100	100	100	100	100	100	100																	
	1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	96	95	94	94	93	92	91	91	90																	
	2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	93	92	91	91	90	89	88	87	86																	
	3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	90	89	88	87	86	85	84	83	82																	
	4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	87	86	85	84	83	82	81	80	79	78																	
	5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	84	83	82	81	80	79	78	77	76	75																	
	6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	82	81	80	79	78	77	76	75	74	73																	
	7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	80	79	78	77	76	75	74	73	72	71																	
	8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	78	77	76	75	74	73	72	71	70	69																	
	9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	76	75	74	73	72	71	70	69	68	67																	
	10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	74	73	72	71	70	69	68	67	66	65																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1108614
5°	1000177
10°	561355
15°	285344
20°	120808
25°	55769
30°	29522
35°	15913
40°	8501
45°	5022
50°	2924
55°	1543
60°	983
65°	698
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.4	40.5
10°-20°	711.3	39.9
20°-30°	232.4	13.0
30°-40°	79.1	4.4
40°-50°	26.6	1.5
50°-60°	8.0	0.4
60°-70°	2.7	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°	1666.1	93.5
0°-40°	1745.3	97.9
0°-60°	1779.9	99.8
0°-90°	1782.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10146	
5°	9119	722
15°	2523	711
25°	463	232
35°	119	79
45°	32	27
55°	8	8
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10146.5
0.5°	10146.5
1°	10133.9
1.5°	10108.6
2°	10062.5
2.5°	10001.1
3°	9914.3
3.5°	9793.2
4°	9613.4
4.5°	9394.8
5°	9119.2
5.5°	8756.9
6°	8385.6
6.5°	7960.0
7°	7543.5
7.5°	7055.6
8°	6620.1
8.5°	6181.9
9°	5777.1
9.5°	5405.8
10°	5059.7
12.5°	3633.1
15°	2522.6
17.5°	1648.0
20°	1039.0
22.5°	673.1
25°	462.6
27.5°	325.3
30°	234.0
32.5°	168.1
35°	119.3
37.5°	83.1
40°	59.6
42.5°	43.4
45°	32.5
47.5°	25.3
50°	17.2
52.5°	10.8
55°	8.1
57.5°	6.3
60°	4.5
62.5°	3.6
65°	2.7



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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°		1.8
70°		0.9

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(END OF REPORT)