

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: P744762

Luminaire Tested: LD4D20D010-EU4DR7020359035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR7020359035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1534.8 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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



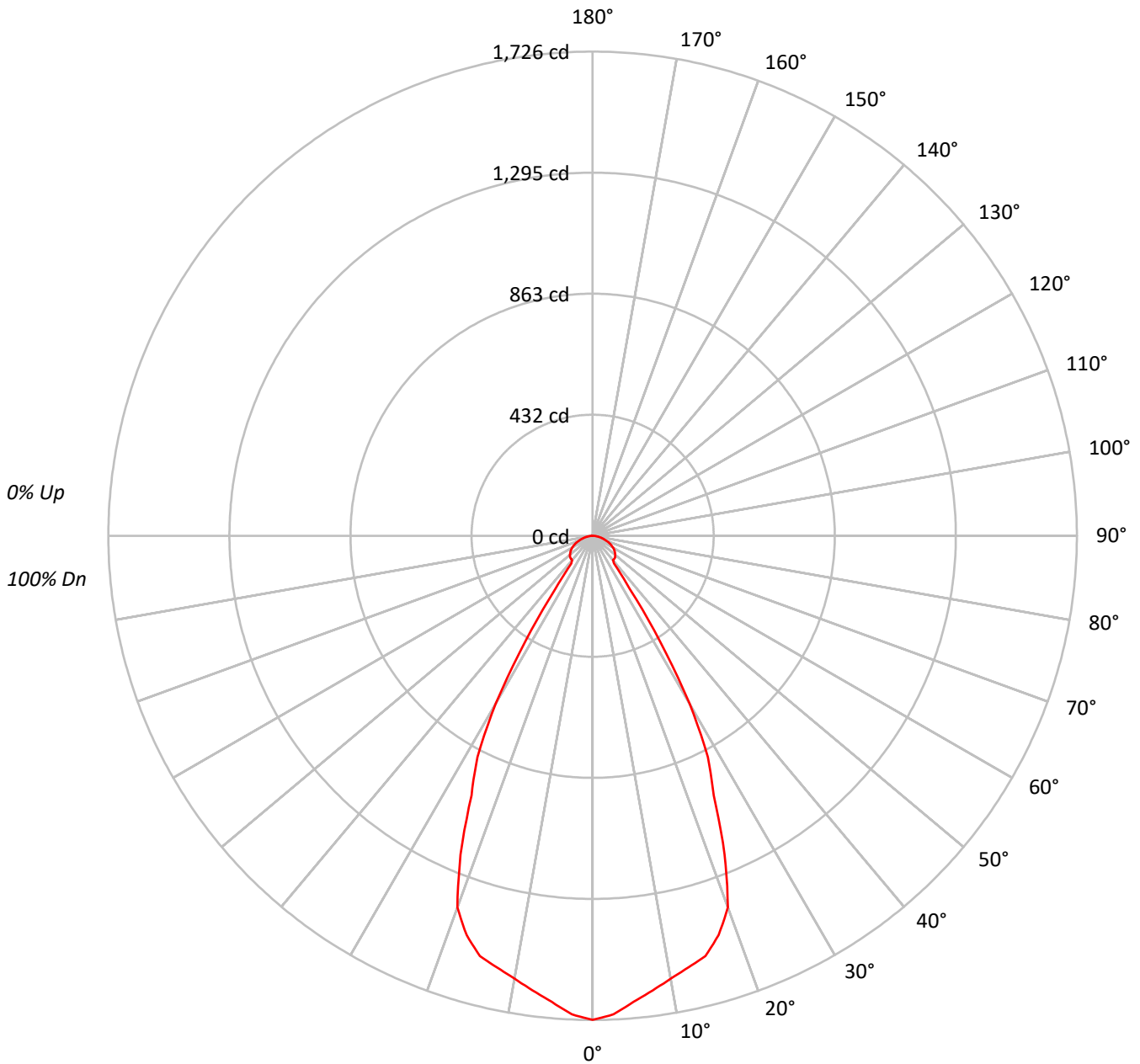
Downlight



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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																			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188540
5°	182932
10°	177836
15°	175509
20°	163887
25°	123112
30°	87028
35°	30825
40°	16217
45°	17260
50°	17882
55°	18211
60°	18334
65°	17942
70°	16931
75°	15662
80°	13905
85°	11283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 18342 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	10.3
10°-20°	431.5	28.1
20°-30°	475.3	31.0
30°-40°	181.6	11.8
40°-50°	85.7	5.6
50°-60°	85.3	5.6
60°-70°	68.3	4.4
70°-80°	39.2	2.6
80°-90°	10.7	0.7
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°	1064.1	69.3
0°-40°	1245.7	81.2
0°-60°	1416.7	92.3
0°-90°	1534.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1726	
5°	1668	157
15°	1552	432
25°	1021	475
35°	231	182
45°	112	86
55°	96	85
65°	69	68
75°	37	39
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1725.6
2.5°	1707.5
5°	1667.9
7.5°	1634.9
10°	1602.9
12.5°	1575.8
15°	1551.6
17.5°	1492.8
20°	1409.5
22.5°	1229.7
25°	1021.2
27.5°	889.0
30°	689.8
32.5°	445.6
35°	231.1
37.5°	124.8
40°	113.7
42.5°	112.8
45°	111.7
47.5°	109.3
50°	105.2
52.5°	100.6
55°	95.6
57.5°	90.2
60°	83.9
62.5°	76.8
65°	69.4
67.5°	61.2
70°	53.0
72.5°	44.8
75°	37.1
77.5°	29.2
80°	22.1
82.5°	15.6
85°	9.0
87.5°	3.6
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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