

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: P749715

Luminaire Tested: LD4D50D010-EU4DR7040509024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749715
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: LD4D50D010-EU4DR7040509024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3269.6 lumens
Efficiency: N/A
Efficacy: 69.6 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): 47
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

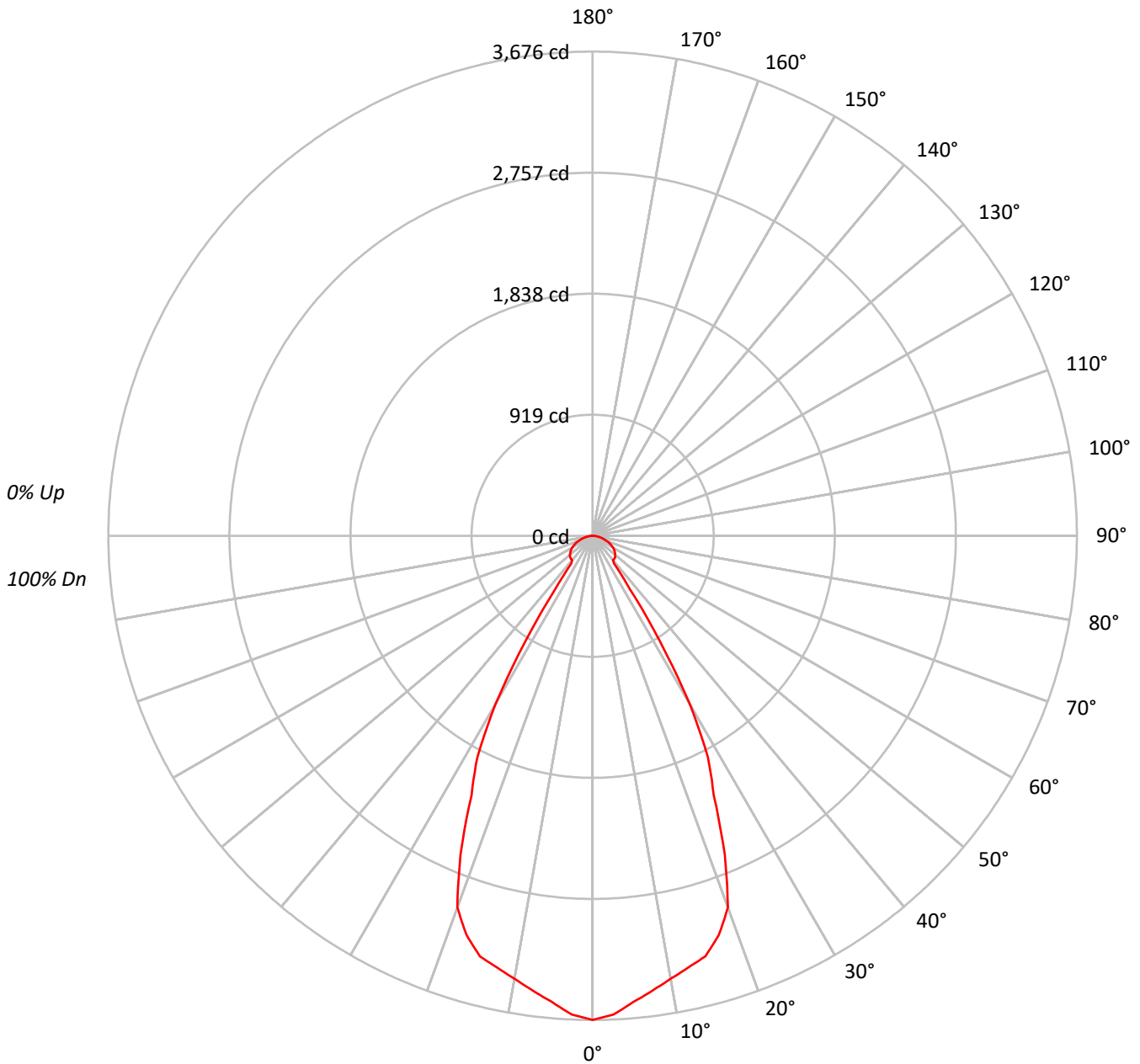


Downlight

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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°	401643
5°	389708
10°	378837
15°	373868
20°	349121
25°	262281
30°	185410
35°	65678
40°	34531
45°	36775
50°	38092
55°	38803
60°	39050
65°	38211
70°	36067
75°	33434
80°	29636
85°	24070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 39064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	10.3
10°-20°	919.3	28.1
20°-30°	1012.5	31.0
30°-40°	386.8	11.8
40°-50°	182.6	5.6
50°-60°	181.6	5.6
60°-70°	145.4	4.4
70°-80°	83.6	2.6
80°-90°	22.7	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°	2266.9	69.3
0°-40°	2653.7	81.2
0°-60°	3018.0	92.3
0°-90°	3269.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3269.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3676	
5°	3553	335
15°	3305	919
25°	2176	1012
35°	492	387
45°	238	183
55°	204	182
65°	148	145
75°	79	84
85°	19	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3676.0
2.5°	3637.6
5°	3553.2
7.5°	3482.7
10°	3414.6
12.5°	3357.0
15°	3305.2
17.5°	3180.1
20°	3002.6
22.5°	2619.6
25°	2175.6
27.5°	1893.9
30°	1469.6
32.5°	949.3
35°	492.4
37.5°	266.0
40°	242.1
42.5°	240.4
45°	238.0
47.5°	232.8
50°	224.1
52.5°	214.2
55°	203.7
57.5°	192.1
60°	178.7
62.5°	163.5
65°	147.8
67.5°	130.4
70°	112.9
72.5°	95.4
75°	79.2
77.5°	62.3
80°	47.1
82.5°	33.2
85°	19.2
87.5°	7.6
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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(END OF REPORT)