

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: P748802

Luminaire Tested: LD4D45BD010-EU4DR6040509030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR6040509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3254.2 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

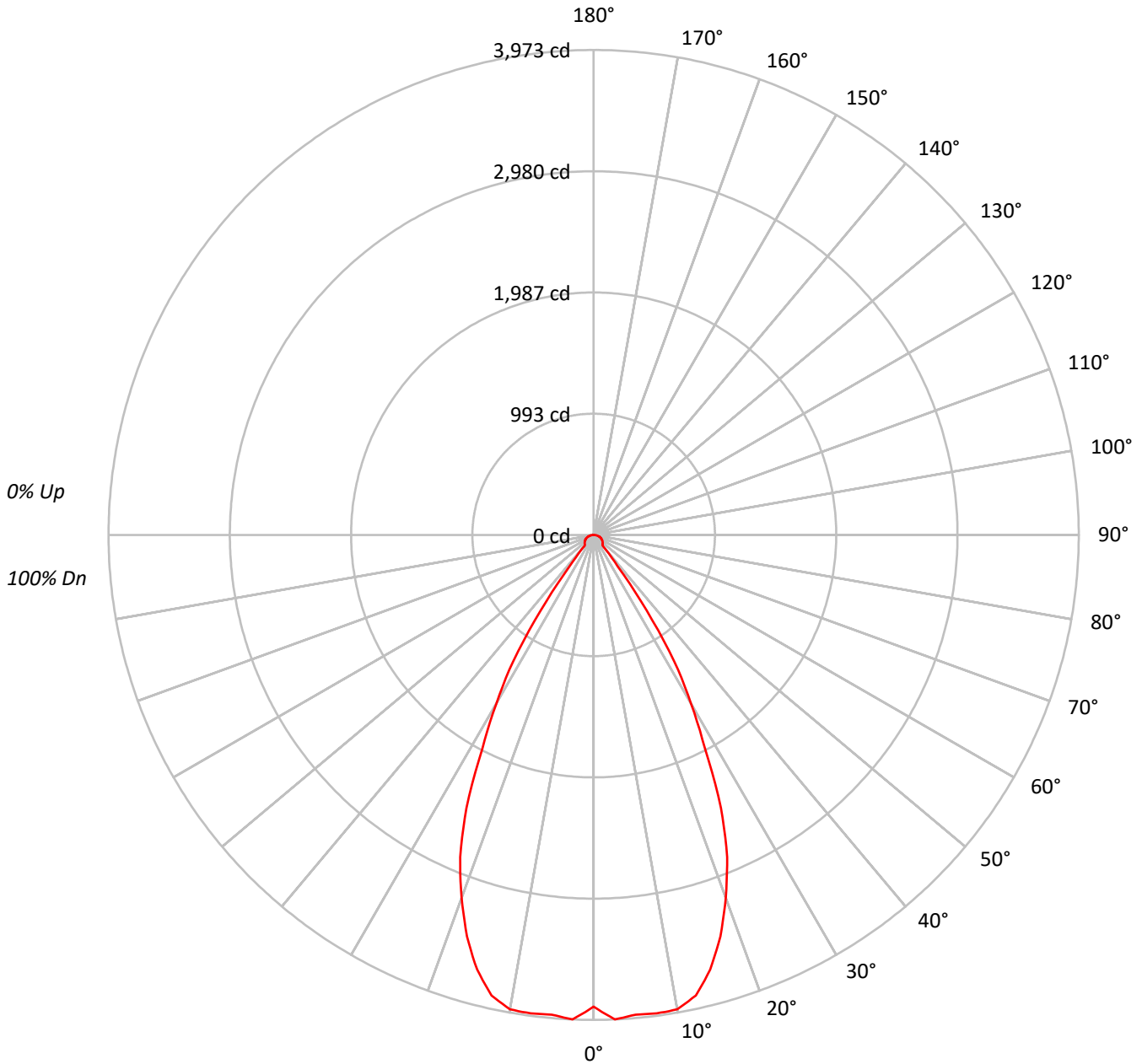
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	422271
5°	432658
10°	437883
15°	417134
20°	367794
25°	297484
30°	201218
35°	100837
40°	16360
45°	16008
50°	16335
55°	16573
60°	17045
65°	17425
70°	17826
75°	18068
80°	17429
85°	14542

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 18068 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.0	11.6
10°-20°	1020.0	31.3
20°-30°	1097.5	33.7
30°-40°	477.1	14.7
40°-50°	80.1	2.5
50°-60°	77.9	2.4
60°-70°	66.6	2.0
70°-80°	44.6	1.4
80°-90°	13.3	0.4
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°	2494.6	76.7
0°-40°	2971.6	91.3
0°-60°	3129.6	96.2
0°-90°	3254.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3254.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3865	
5°	3945	377
15°	3688	1020
25°	2468	1097
35°	756	477
45°	104	80
55°	87	78
65°	67	67
75°	43	45
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3864.8
2.5°	3973.4
5°	3944.8
7.5°	3953.8
10°	3946.8
12.5°	3865.3
15°	3687.7
17.5°	3449.3
20°	3163.2
22.5°	2856.8
25°	2467.6
27.5°	1973.6
30°	1594.9
32.5°	1229.2
35°	756.0
37.5°	323.4
40°	114.7
42.5°	105.6
45°	103.6
47.5°	100.1
50°	96.1
52.5°	91.5
55°	87.0
57.5°	82.5
60°	78.0
62.5°	72.9
65°	67.4
67.5°	61.9
70°	55.8
72.5°	49.3
75°	42.8
77.5°	35.2
80°	27.7
82.5°	19.6
85°	11.6
87.5°	4.0
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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(END OF REPORT)