

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: P748828

Luminaire Tested: LD4D45BD010-EU4DR6040509040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748828
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-EU4DR6040509040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3442.2 lumens
Efficiency: N/A
Efficacy: 88.9 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

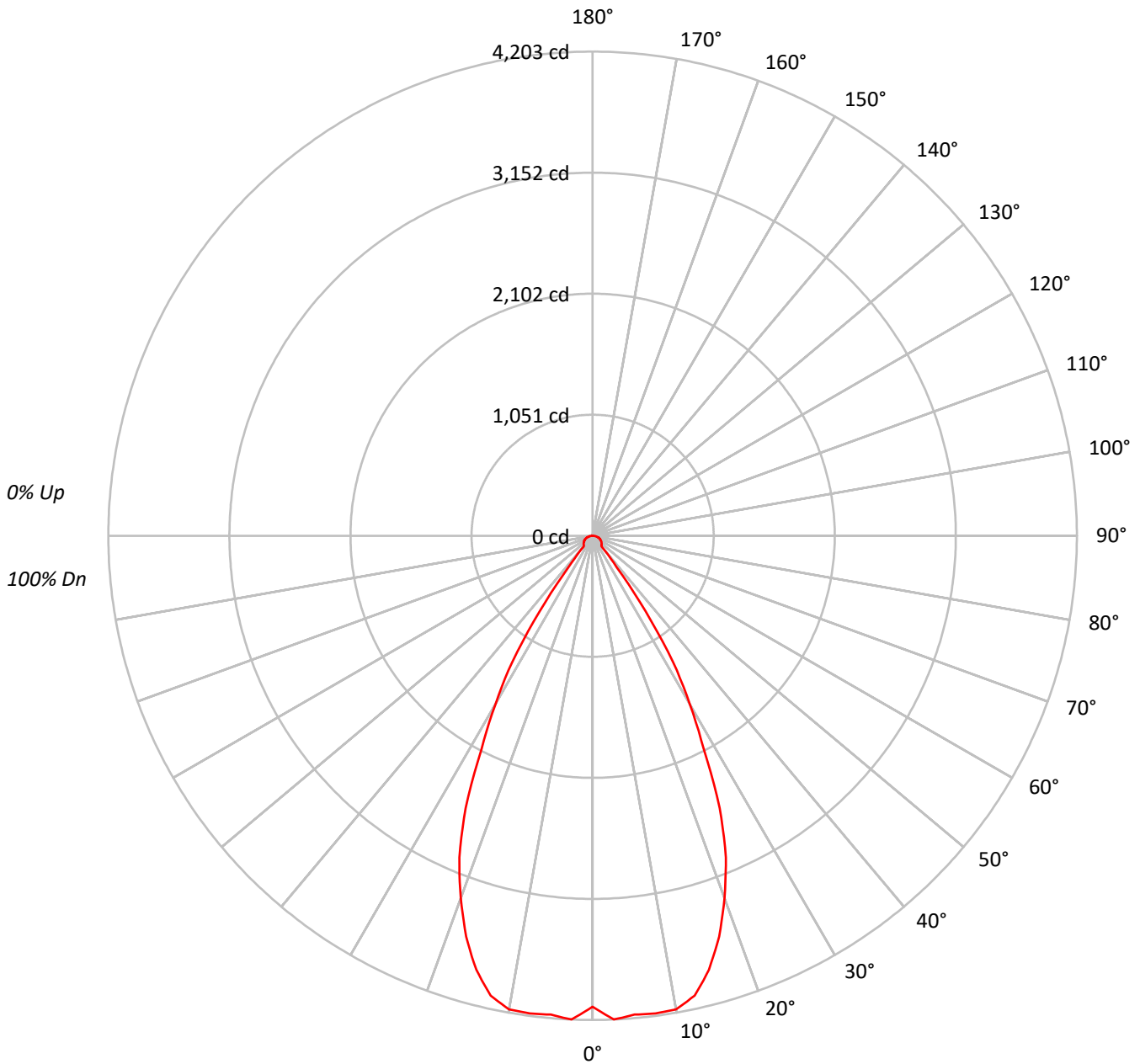
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	446669
5°	457654
10°	463179
15°	441239
20°	389037
25°	314663
30°	212850
35°	106653
40°	17301
45°	16935
50°	17270
55°	17525
60°	18028
65°	18433
70°	18880
75°	19081
80°	18436
85°	15294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 19081 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.8	11.6
10°-20°	1079.0	31.3
20°-30°	1160.9	33.7
30°-40°	504.6	14.7
40°-50°	84.8	2.5
50°-60°	82.4	2.4
60°-70°	70.5	2.0
70°-80°	47.1	1.4
80°-90°	14.1	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°	2638.7	76.7
0°-40°	3143.3	91.3
0°-60°	3310.5	96.2
0°-90°	3442.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4088	
5°	4173	399
15°	3901	1079
25°	2610	1161
35°	800	505
45°	110	85
55°	92	82
65°	71	70
75°	45	47
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4088.1
2.5°	4203.0
5°	4172.7
7.5°	4182.3
10°	4174.8
12.5°	4088.6
15°	3900.8
17.5°	3648.6
20°	3345.9
22.5°	3021.9
25°	2610.1
27.5°	2087.7
30°	1687.1
32.5°	1300.3
35°	799.6
37.5°	342.1
40°	121.3
42.5°	111.7
45°	109.6
47.5°	105.9
50°	101.6
52.5°	96.8
55°	92.0
57.5°	87.3
60°	82.5
62.5°	77.1
65°	71.3
67.5°	65.4
70°	59.1
72.5°	52.1
75°	45.2
77.5°	37.2
80°	29.3
82.5°	20.7
85°	12.2
87.5°	4.3
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)