

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: P748789

Luminaire Tested: LD4D45BD010-EU4DR6040509027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748789
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-EU4DR6040509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.8 lumens
Efficiency: N/A
Efficacy: 81.6 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

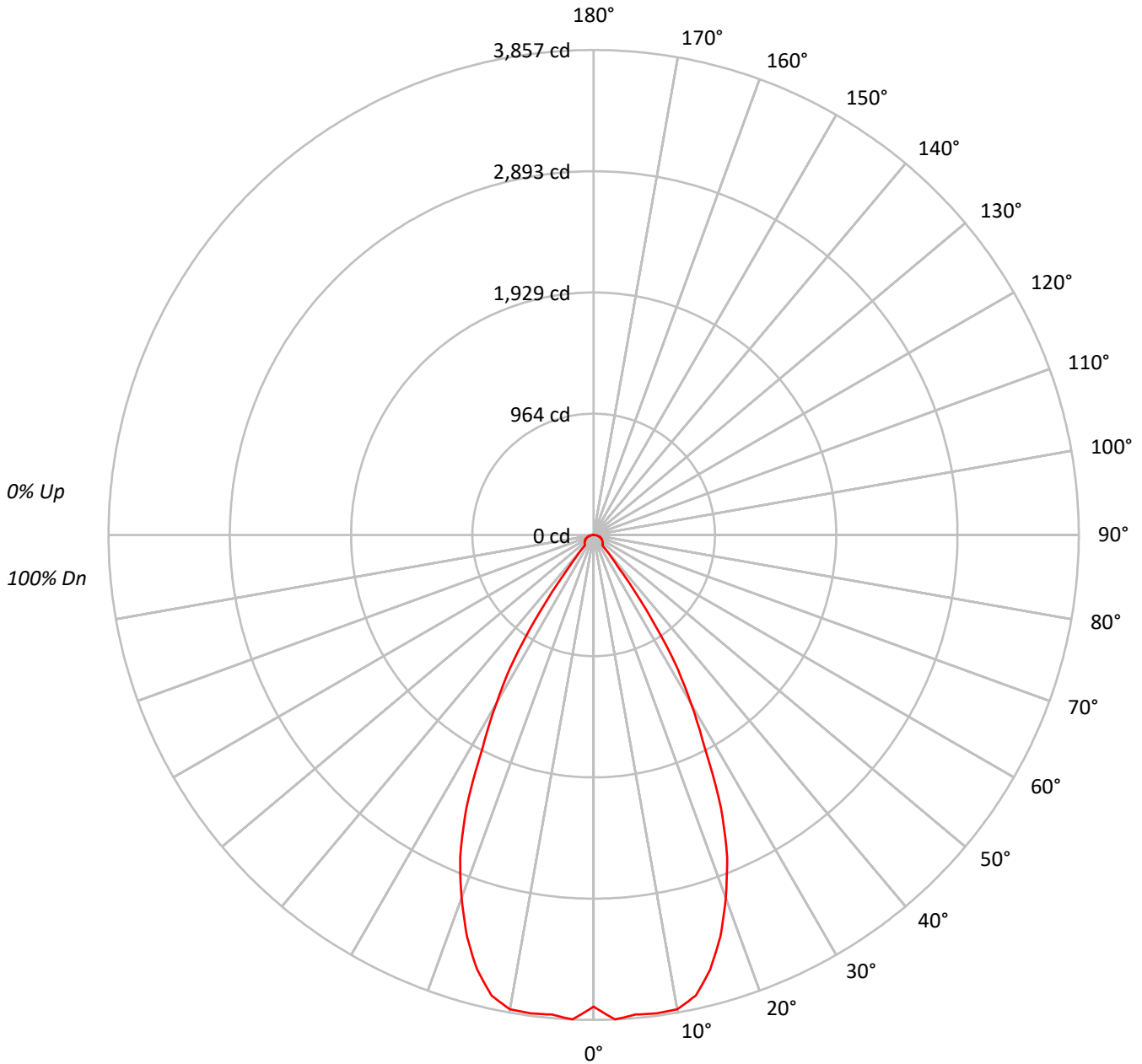
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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									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°	409881
5°	419968
10°	425035
15°	404907
20°	357004
25°	288756
30°	195314
35°	97876
40°	15875
45°	15545
50°	15842
55°	16096
60°	16542
65°	16908
70°	17315
75°	17519
80°	16926
85°	14041

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 17519 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	11.6
10°-20°	990.1	31.3
20°-30°	1065.3	33.7
30°-40°	463.1	14.7
40°-50°	77.8	2.5
50°-60°	75.6	2.4
60°-70°	64.7	2.0
70°-80°	43.3	1.4
80°-90°	12.9	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°	2421.4	76.7
0°-40°	2884.4	91.3
0°-60°	3037.9	96.2
0°-90°	3158.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3751	
5°	3829	366
15°	3580	990
25°	2395	1065
35°	734	463
45°	101	78
55°	84	76
65°	65	65
75°	42	43
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3751.4
2.5°	3856.9
5°	3829.1
7.5°	3837.8
10°	3831.0
12.5°	3751.9
15°	3579.6
17.5°	3348.2
20°	3070.4
22.5°	2773.0
25°	2395.2
27.5°	1915.7
30°	1548.1
32.5°	1193.2
35°	733.8
37.5°	313.9
40°	111.3
42.5°	102.5
45°	100.6
47.5°	97.2
50°	93.2
52.5°	88.9
55°	84.5
57.5°	80.1
60°	75.7
62.5°	70.8
65°	65.4
67.5°	60.1
70°	54.2
72.5°	47.8
75°	41.5
77.5°	34.2
80°	26.9
82.5°	19.0
85°	11.2
87.5°	3.9
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)