

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: P755032

Luminaire Tested: LD4D85BD010-EU4DR6070959027-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755032
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: LD4D85BD010-EU4DR6070959027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7142.1 lumens
Efficiency: N/A
Efficacy: 81.4 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

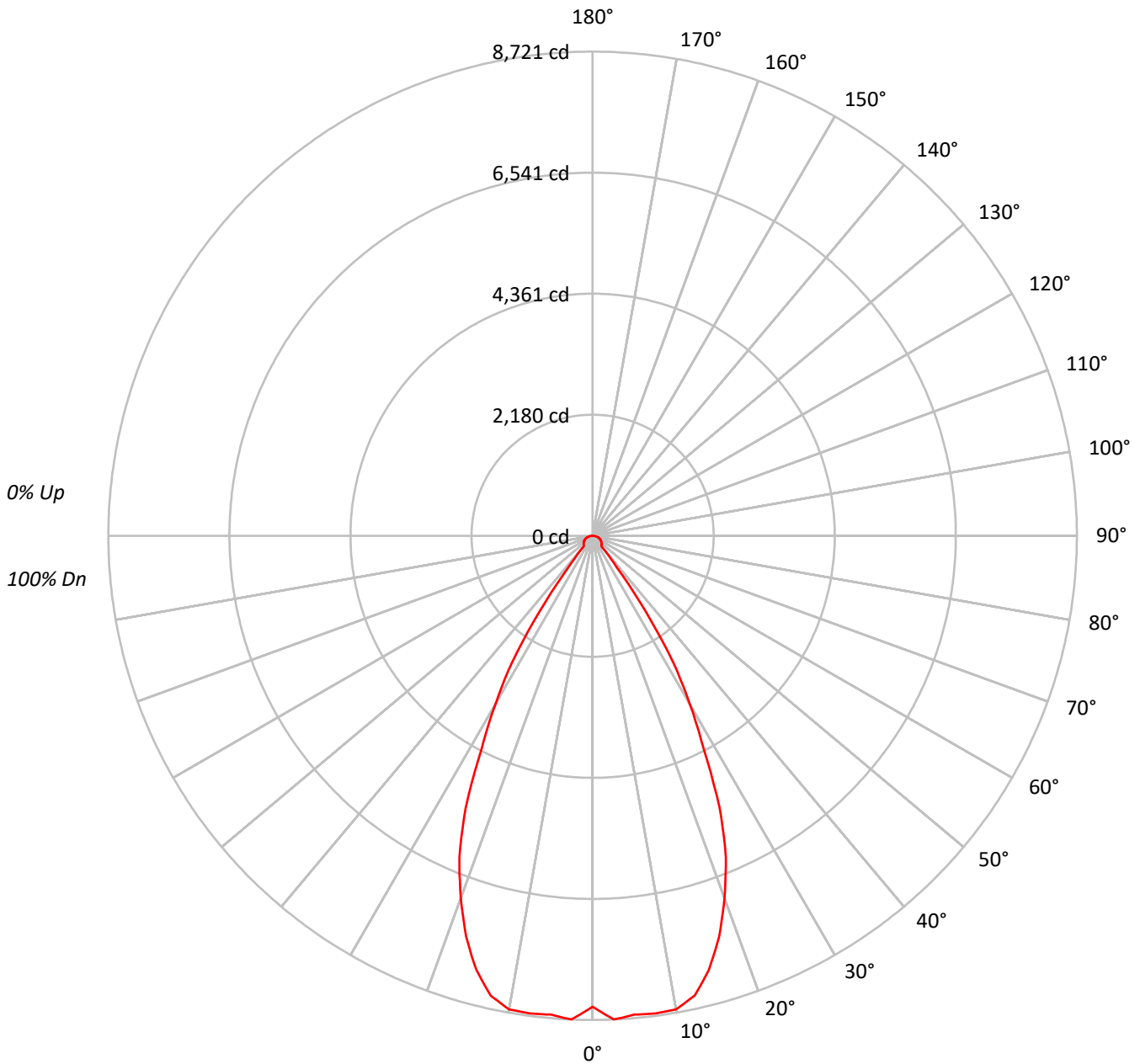
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	926772
5°	949560
10°	961028
15°	915508
20°	807201
25°	652883
30°	441623
35°	221295
40°	35900
45°	35137
50°	35832
55°	36384
60°	37389
65°	38237
70°	39133
75°	39598
80°	38193
85°	31842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 39598 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.5	11.6
10°-20°	2238.7	31.3
20°-30°	2408.7	33.7
30°-40°	1047.0	14.7
40°-50°	175.9	2.5
50°-60°	171.0	2.4
60°-70°	146.3	2.0
70°-80°	97.9	1.4
80°-90°	29.3	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°	5474.9	76.7
0°-40°	6521.9	91.3
0°-60°	6868.7	96.2
0°-90°	7142.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7142.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8482	
5°	8658	827
15°	8094	2239
25°	5416	2409
35°	1659	1047
45°	227	176
55°	191	171
65°	148	146
75°	94	98
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8482.2
2.5°	8720.6
5°	8657.7
7.5°	8677.6
10°	8662.1
12.5°	8483.3
15°	8093.6
17.5°	7570.4
20°	6942.3
22.5°	6270.0
25°	5415.6
27.5°	4331.6
30°	3500.4
32.5°	2697.9
35°	1659.1
37.5°	709.8
40°	251.7
42.5°	231.8
45°	227.4
47.5°	219.7
50°	210.8
52.5°	200.9
55°	191.0
57.5°	181.0
60°	171.1
62.5°	160.1
65°	147.9
67.5°	135.8
70°	122.5
72.5°	108.2
75°	93.8
77.5°	77.3
80°	60.7
82.5°	43.1
85°	25.4
87.5°	8.8
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)