

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: P755083

Luminaire Tested: LD4D85BD010-EU4DR6070959050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755083
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-EU4DR6070959050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9088.5 lumens
Efficiency: N/A
Efficacy: 103.6 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

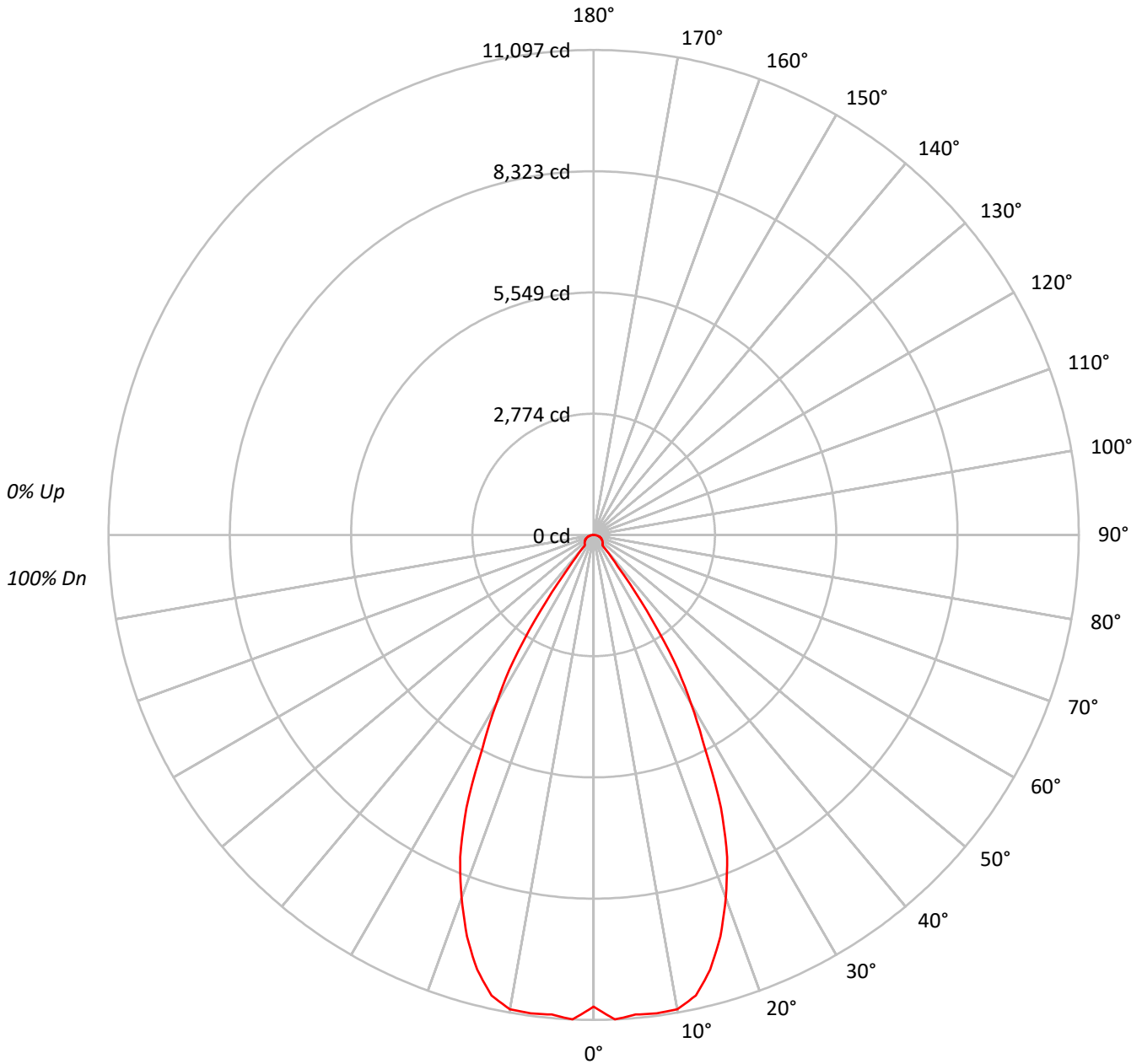
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1179339
5°	1208335
10°	1222928
15°	1165006
20°	1027178
25°	830811
30°	561970
35°	281611
40°	45684
45°	44718
50°	45606
55°	46289
60°	47572
65°	48656
70°	49803
75°	50405
80°	48638
85°	40492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 50405 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.0	11.6
10°-20°	2848.8	31.3
20°-30°	3065.1	33.7
30°-40°	1332.3	14.7
40°-50°	223.8	2.5
50°-60°	217.6	2.4
60°-70°	186.1	2.0
70°-80°	124.5	1.4
80°-90°	37.2	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°	6966.9	76.7
0°-40°	8299.3	91.3
0°-60°	8740.7	96.2
0°-90°	9088.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9088.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10794	
5°	11017	###
15°	10299	2849
25°	6892	3065
35°	2111	1332
45°	289	224
55°	243	218
65°	188	186
75°	119	125
85°	32	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10793.8
2.5°	11097.2
5°	11017.1
7.5°	11042.4
10°	11022.7
12.5°	10795.2
15°	10299.3
17.5°	9633.5
20°	8834.2
22.5°	7978.7
25°	6891.5
27.5°	5512.1
30°	4454.3
32.5°	3433.1
35°	2111.3
37.5°	903.2
40°	320.3
42.5°	295.0
45°	289.4
47.5°	279.5
50°	268.3
52.5°	255.7
55°	243.0
57.5°	230.4
60°	217.7
62.5°	203.7
65°	188.2
67.5°	172.8
70°	155.9
72.5°	137.7
75°	119.4
77.5°	98.3
80°	77.3
82.5°	54.8
85°	32.3
87.5°	11.2
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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