

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: P754418

Luminaire Tested: LD4D80BD010-EU4DR7070959030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR7070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4469.7 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

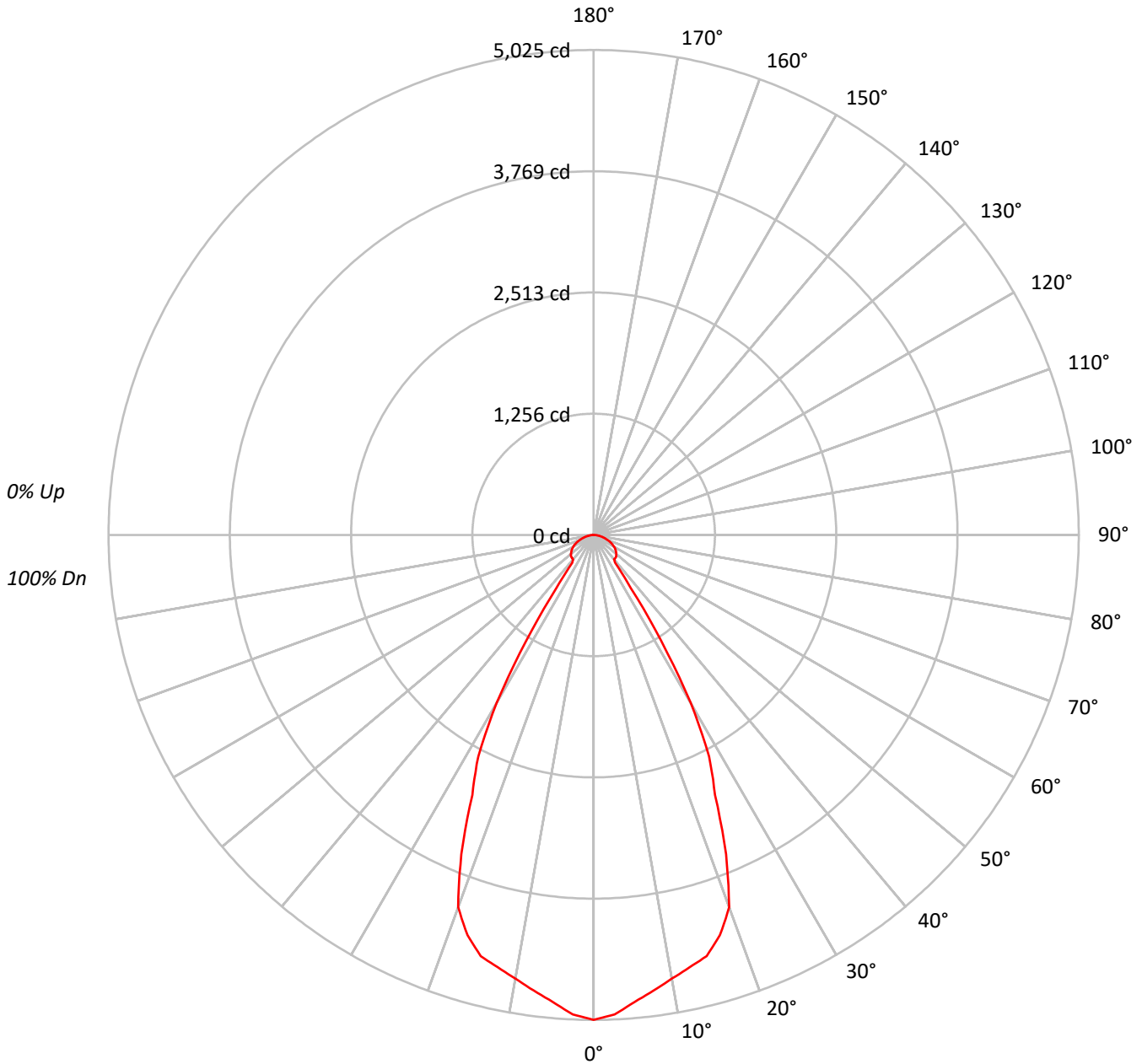
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	549057
5°	532739
10°	517886
15°	511088
20°	477254
25°	358533
30°	253450
35°	89780
40°	47210
45°	50280
50°	52065
55°	53052
60°	53385
65°	52250
70°	49324
75°	45677
80°	40521
85°	32970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 53400 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.1	10.3
10°-20°	1256.7	28.1
20°-30°	1384.1	31.0
30°-40°	528.8	11.8
40°-50°	249.7	5.6
50°-60°	248.3	5.6
60°-70°	198.8	4.4
70°-80°	114.2	2.6
80°-90°	31.1	0.7
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°	3098.9	69.3
0°-40°	3627.7	81.2
0°-60°	4125.6	92.3
0°-90°	4469.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4469.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5025	
5°	4857	458
15°	4518	1257
25°	2974	1384
35°	673	529
45°	325	250
55°	278	248
65°	202	199
75°	108	114
85°	26	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5025.2
2.5°	4972.6
5°	4857.3
7.5°	4761.0
10°	4667.9
12.5°	4589.1
15°	4518.3
17.5°	4347.3
20°	4104.6
22.5°	3581.1
25°	2974.0
27.5°	2589.0
30°	2008.9
32.5°	1297.7
35°	673.1
37.5°	363.6
40°	331.0
42.5°	328.6
45°	325.4
47.5°	318.2
50°	306.3
52.5°	292.8
55°	278.5
57.5°	262.6
60°	244.3
62.5°	223.6
65°	202.1
67.5°	178.2
70°	154.4
72.5°	130.5
75°	108.2
77.5°	85.1
80°	64.4
82.5°	45.4
85°	26.3
87.5°	10.3
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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