

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: P756017

Luminaire Tested: LD4D90BD010-EU4DR7070959050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P756017
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: LD4D90BD010-EU4DR7070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5377.6 lumens
Efficiency: N/A
Efficacy: 54.4 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

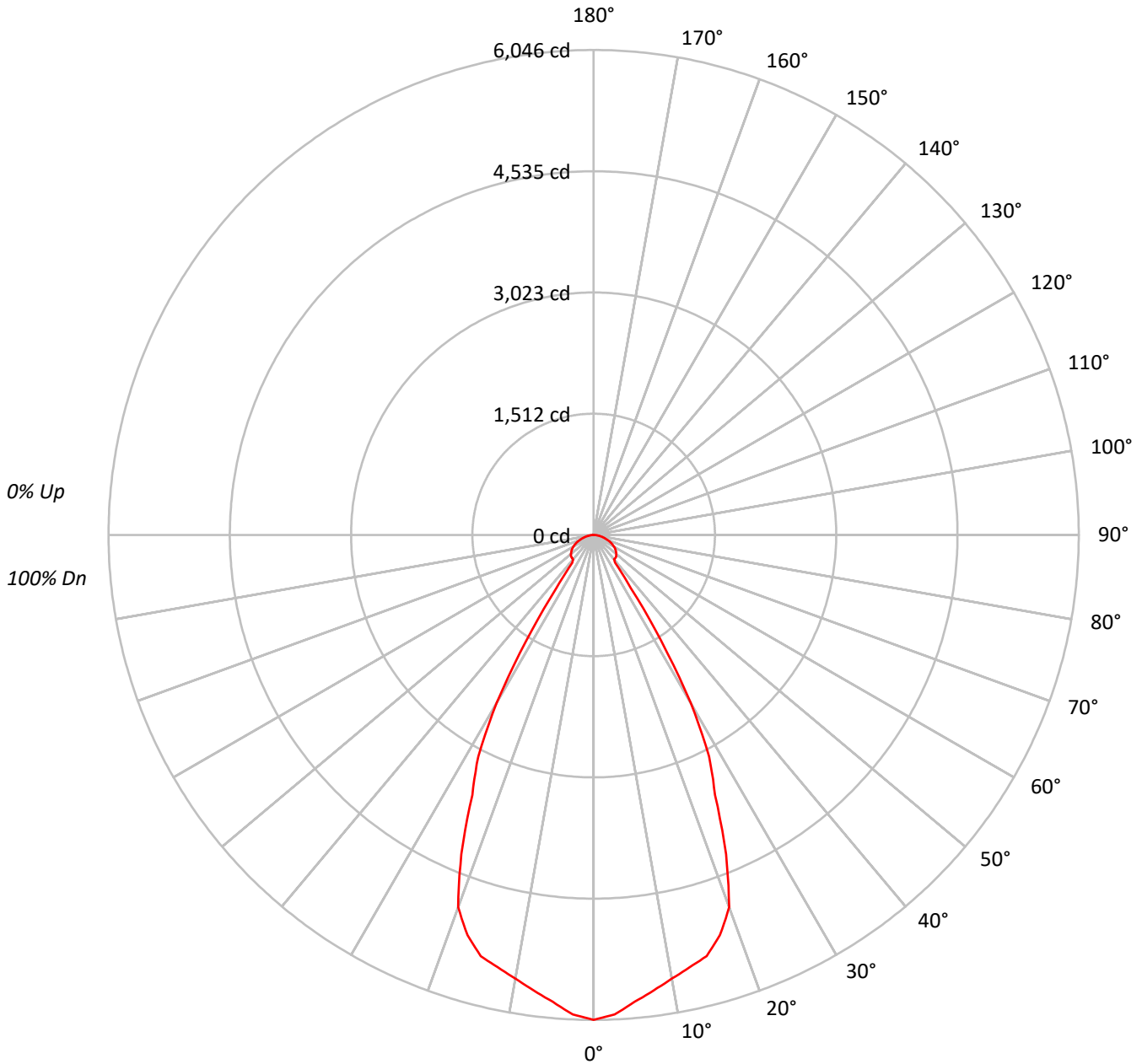
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	660591
5°	640959
10°	623096
15°	614916
20°	574214
25°	431373
30°	304950
35°	108013
40°	56795
45°	60494
50°	62637
55°	63814
60°	64223
65°	62849
70°	59323
75°	54964
80°	48764
85°	39615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 64239 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.2	10.3
10°-20°	1512.0	28.1
20°-30°	1665.2	31.0
30°-40°	636.2	11.8
40°-50°	300.4	5.6
50°-60°	298.7	5.6
60°-70°	239.1	4.4
70°-80°	137.4	2.6
80°-90°	37.4	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°	3728.4	69.3
0°-40°	4364.6	81.2
0°-60°	4963.7	92.3
0°-90°	5377.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5377.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6046	
5°	5844	551
15°	5436	1512
25°	3578	1665
35°	810	636
45°	392	300
55°	335	299
65°	243	239
75°	130	137
85°	32	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6046.0
2.5°	5982.8
5°	5844.0
7.5°	5728.2
10°	5616.2
12.5°	5521.4
15°	5436.2
17.5°	5230.4
20°	4938.5
22.5°	4308.6
25°	3578.2
27.5°	3114.9
30°	2417.1
32.5°	1561.3
35°	809.8
37.5°	437.5
40°	398.2
42.5°	395.3
45°	391.5
47.5°	382.9
50°	368.5
52.5°	352.3
55°	335.0
57.5°	315.9
60°	293.9
62.5°	269.0
65°	243.1
67.5°	214.4
70°	185.7
72.5°	157.0
75°	130.2
77.5°	102.4
80°	77.5
82.5°	54.6
85°	31.6
87.5°	12.4
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)