

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: P755848

Luminaire Tested: LD4D90BD010-EU4DR6070959040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755848
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: LD4D90BD010-EU4DR6070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7179.7 lumens
Efficiency: N/A
Efficacy: 72.6 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

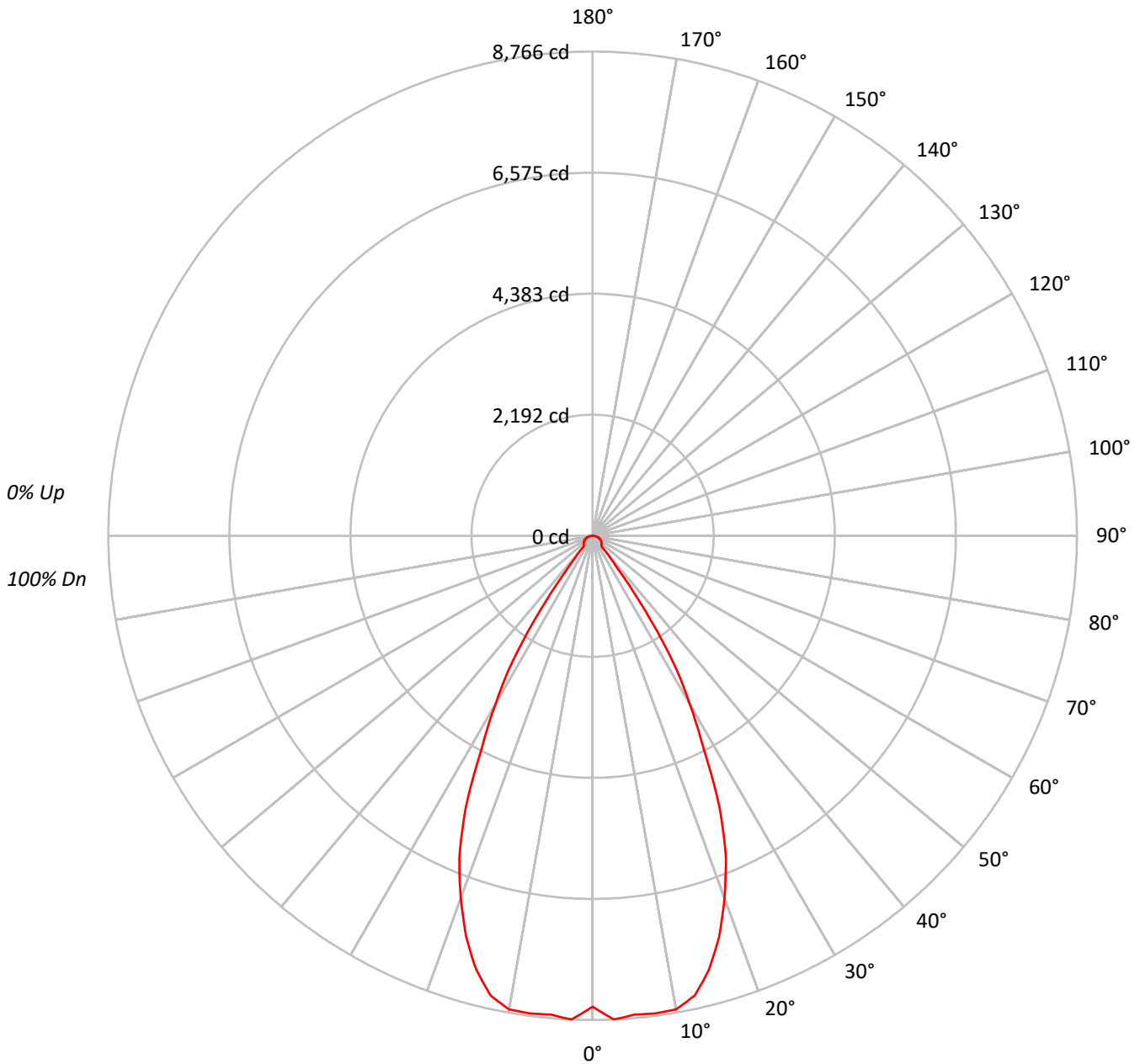
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
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°	931645
5°	954562
10°	966087
15°	920327
20°	811445
25°	656318
30°	443944
35°	222469
40°	36085
45°	35323
50°	36036
55°	36574
60°	37586
65°	38444
70°	39357
75°	39809
80°	38382
85°	31967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 39809 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.8	11.6
10°-20°	2250.5	31.3
20°-30°	2421.4	33.7
30°-40°	1052.5	14.7
40°-50°	176.8	2.5
50°-60°	171.9	2.4
60°-70°	147.0	2.0
70°-80°	98.4	1.4
80°-90°	29.4	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°	5503.7	76.7
0°-40°	6556.2	91.3
0°-60°	6904.9	96.2
0°-90°	7179.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7179.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8527	
5°	8703	832
15°	8136	2251
25°	5444	2421
35°	1668	1053
45°	229	177
55°	192	172
65°	149	147
75°	94	98
85°	26	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8526.8
2.5°	8766.5
5°	8703.3
7.5°	8723.2
10°	8707.7
12.5°	8527.9
15°	8136.2
17.5°	7610.2
20°	6978.8
22.5°	6303.0
25°	5444.1
27.5°	4354.4
30°	3518.8
32.5°	2712.1
35°	1667.9
37.5°	713.5
40°	253.0
42.5°	233.0
45°	228.6
47.5°	220.8
50°	212.0
52.5°	202.0
55°	192.0
57.5°	182.0
60°	172.0
62.5°	160.9
65°	148.7
67.5°	136.5
70°	123.2
72.5°	108.7
75°	94.3
77.5°	77.7
80°	61.0
82.5°	43.3
85°	25.5
87.5°	8.9
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)