

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: P755029

Luminaire Tested: LD4D85BD010-EU4DR6070959027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755029
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-EU4DR6070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6210.5 lumens
Efficiency: N/A
Efficacy: 70.8 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

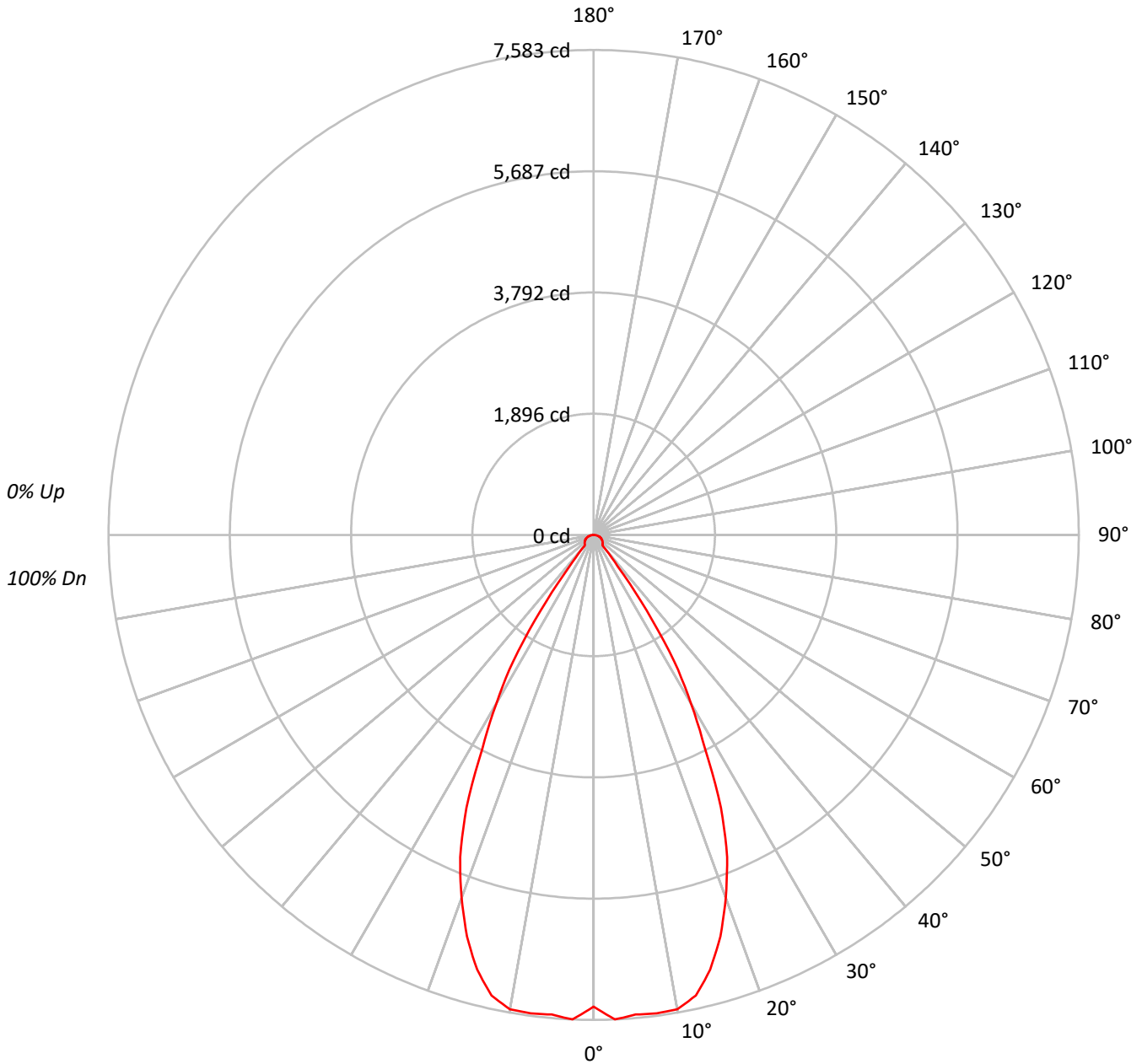
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	805875
5°	825690
10°	835670
15°	796081
20°	701904
25°	567722
30°	384016
35°	192431
40°	31222
45°	30548
50°	31157
55°	31640
60°	32516
65°	33247
70°	34022
75°	34448
80°	33222
85°	27705

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 34448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.5	11.6
10°-20°	1946.7	31.3
20°-30°	2094.5	33.7
30°-40°	910.4	14.7
40°-50°	152.9	2.5
50°-60°	148.7	2.4
60°-70°	127.2	2.0
70°-80°	85.1	1.4
80°-90°	25.5	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°	4760.7	76.7
0°-40°	5671.2	91.3
0°-60°	5972.8	96.2
0°-90°	6210.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6210.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7376	
5°	7528	720
15°	7038	1947
25°	4709	2095
35°	1443	910
45°	198	153
55°	166	149
65°	129	127
75°	82	85
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7375.7
2.5°	7583.1
5°	7528.3
7.5°	7545.6
10°	7532.2
12.5°	7376.7
15°	7037.8
17.5°	6582.9
20°	6036.7
22.5°	5452.1
25°	4709.2
27.5°	3766.6
30°	3043.8
32.5°	2345.9
35°	1442.7
37.5°	617.2
40°	218.9
42.5°	201.6
45°	197.7
47.5°	191.0
50°	183.3
52.5°	174.7
55°	166.1
57.5°	157.4
60°	148.8
62.5°	139.2
65°	128.6
67.5°	118.1
70°	106.5
72.5°	94.1
75°	81.6
77.5°	67.2
80°	52.8
82.5°	37.4
85°	22.1
87.5°	7.7
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)