

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: P755225

Luminaire Tested: LD4D85BD010-EU4DR7070959040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755225
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: LD4D85BD010-EU4DR7070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8650.7 lumens
Efficiency: N/A
Efficacy: 98.6 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

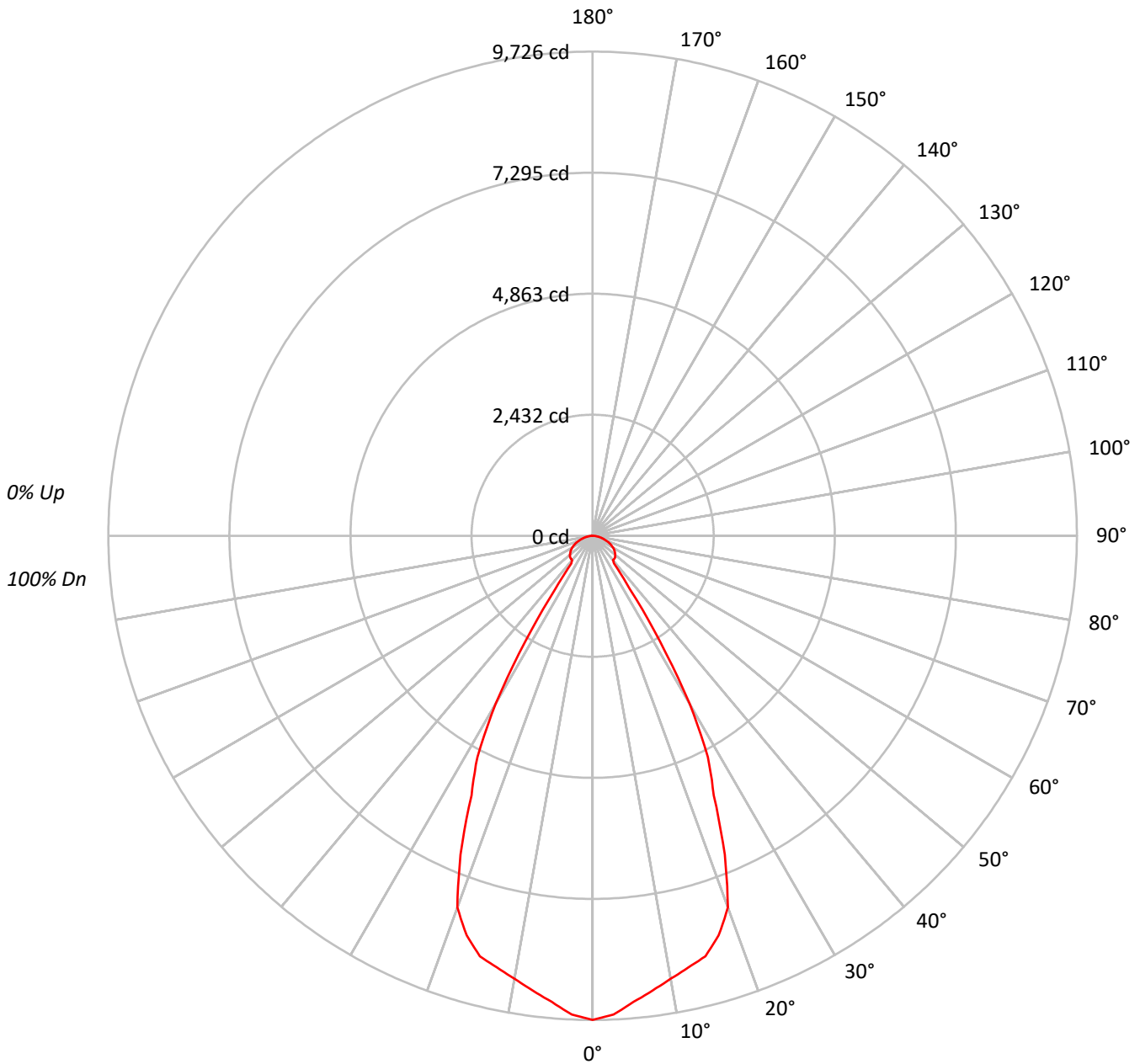
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1062659
5°	1031084
10°	1002344
15°	989191
20°	923695
25°	693932
30°	490549
35°	173758
40°	91369
45°	97315
50°	100781
55°	102674
60°	103295
65°	101112
70°	95422
75°	88398
80°	78462
85°	63684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 103343 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.7	10.3
10°-20°	2432.2	28.1
20°-30°	2678.8	31.0
30°-40°	1023.5	11.8
40°-50°	483.3	5.6
50°-60°	480.5	5.6
60°-70°	384.6	4.4
70°-80°	221.1	2.6
80°-90°	60.1	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°	5997.7	69.3
0°-40°	7021.1	81.2
0°-60°	7984.9	92.3
0°-90°	8650.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8650.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9726	
5°	9401	887
15°	8745	2432
25°	5756	2679
35°	1303	1023
45°	630	483
55°	539	480
65°	391	385
75°	209	221
85°	51	60
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9725.9
2.5°	9624.2
5°	9401.0
7.5°	9214.6
10°	9034.5
12.5°	8882.0
15°	8745.0
17.5°	8413.9
20°	7944.2
22.5°	6931.0
25°	5756.1
27.5°	5010.8
30°	3888.2
32.5°	2511.5
35°	1302.7
37.5°	703.7
40°	640.6
42.5°	636.0
45°	629.8
47.5°	616.0
50°	592.9
52.5°	566.7
55°	539.0
57.5°	508.2
60°	472.7
62.5°	432.7
65°	391.1
67.5°	344.9
70°	298.7
72.5°	252.5
75°	209.4
77.5°	164.8
80°	124.7
82.5°	87.8
85°	50.8
87.5°	20.0
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)