

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: P755056

Luminaire Tested: LD4D85BD010-EU4DR6070959035-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755056
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-EU4DR6070959035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8210.5 lumens
Efficiency: N/A
Efficacy: 93.6 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

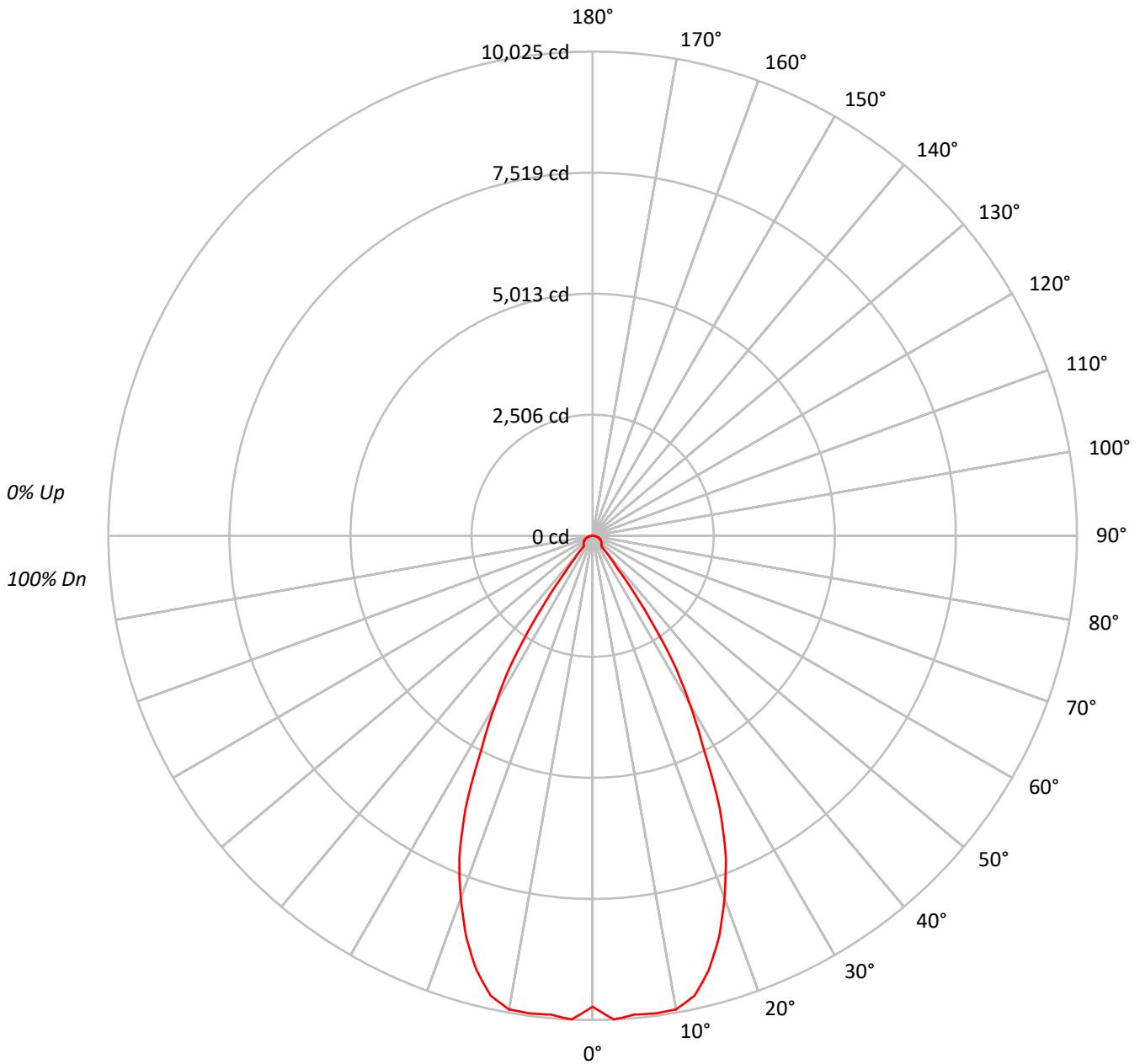
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	1065402
5°	1091593
10°	1104781
15°	1052456
20°	927939
25°	750545
30°	507682
35°	254401
40°	41263
45°	40391
50°	41203
55°	41813
60°	42983
65°	43951
70°	45012
75°	45550
80°	43919
85°	36606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 45550 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.2	11.6
10°-20°	2573.6	31.3
20°-30°	2769.0	33.7
30°-40°	1203.6	14.7
40°-50°	202.1	2.5
50°-60°	196.6	2.4
60°-70°	168.1	2.0
70°-80°	112.5	1.4
80°-90°	33.7	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°	6293.8	76.7
0°-40°	7497.5	91.3
0°-60°	7896.2	96.2
0°-90°	8210.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8210.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9751	
5°	9953	951
15°	9304	2574
25°	6226	2769
35°	1907	1204
45°	261	202
55°	220	197
65°	170	168
75°	108	113
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9751.0
2.5°	10025.1
5°	9952.7
7.5°	9975.6
10°	9957.8
12.5°	9752.2
15°	9304.3
17.5°	8702.8
20°	7980.7
22.5°	7207.9
25°	6225.7
27.5°	4979.5
30°	4024.0
32.5°	3101.4
35°	1907.3
37.5°	816.0
40°	289.3
42.5°	266.5
45°	261.4
47.5°	252.5
50°	242.4
52.5°	231.0
55°	219.5
57.5°	208.1
60°	196.7
62.5°	184.0
65°	170.0
67.5°	156.1
70°	140.9
72.5°	124.4
75°	107.9
77.5°	88.8
80°	69.8
82.5°	49.5
85°	29.2
87.5°	10.2
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)