

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: P755940

Luminaire Tested: LD4D90BD010-EU4DR6570959050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8023.4 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

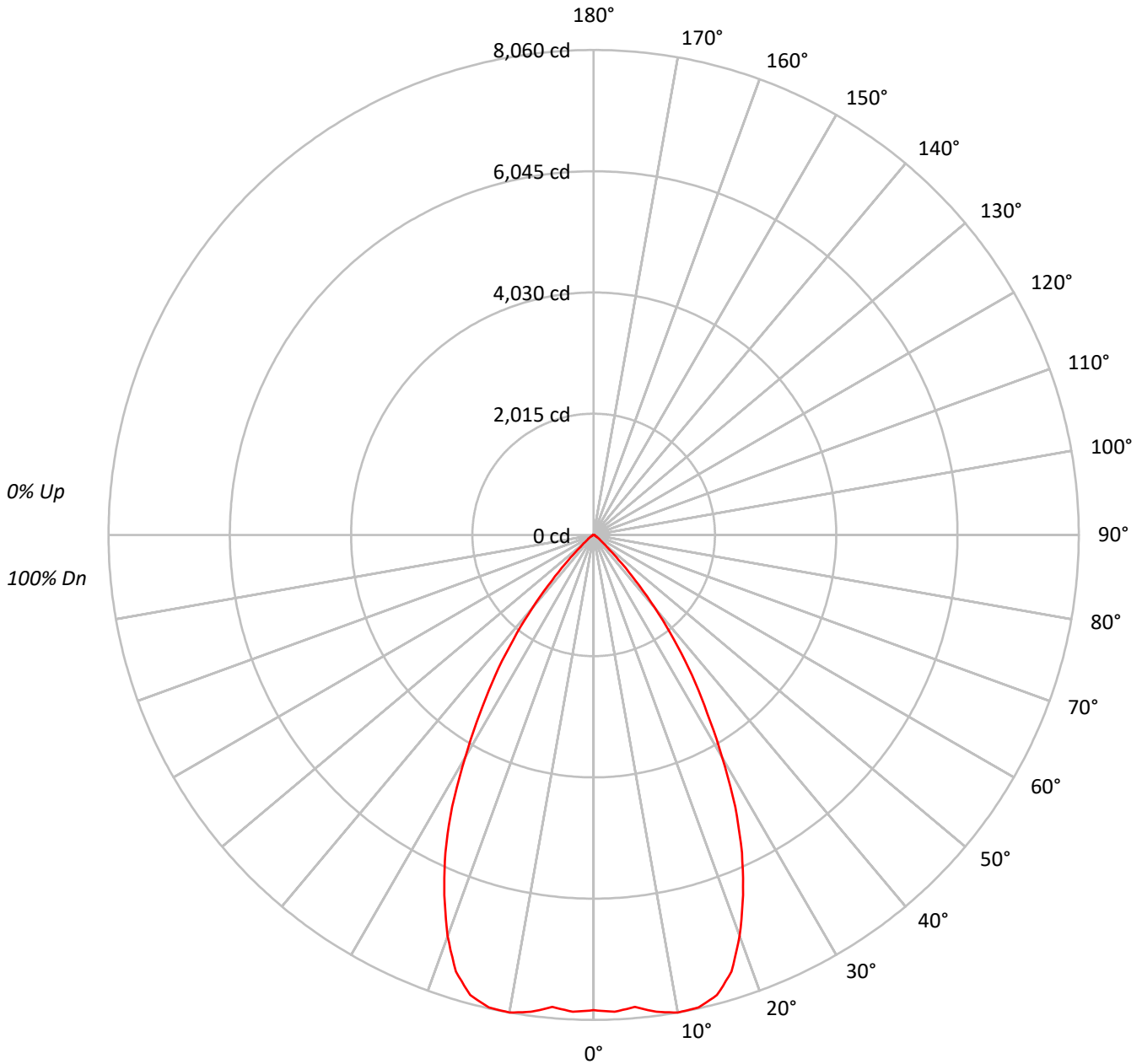
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	863116
5°	863825
10°	894238
15°	895724
20°	824665
25°	702660
30°	537910
35°	380021
40°	224314
45°	91073
50°	33010
55°	18382
60°	10555
65°	5817
70°	6102
75°	4728
80°	4971
85°	4262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 91073 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.7	9.5
10°-20°	2194.2	27.3
20°-30°	2632.6	32.8
30°-40°	1769.2	22.1
40°-50°	529.6	6.6
50°-60°	93.5	1.2
60°-70°	26.6	0.3
70°-80°	13.0	0.2
80°-90°	4.1	0.1
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°	5587.4	69.6
0°-40°	7356.6	91.7
0°-60°	7979.7	99.5
0°-90°	8023.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8023.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7900	
5°	7876	761
15°	7919	2194
25°	5828	2633
35°	2849	1769
45°	589	530
55°	96	93
65°	22	27
75°	11	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7899.6
2.5°	7933.3
5°	7876.0
7.5°	7995.0
10°	8060.1
12.5°	8044.4
15°	7918.7
17.5°	7611.1
20°	7092.5
22.5°	6481.8
25°	5828.5
27.5°	5090.9
30°	4263.6
32.5°	3513.7
35°	2849.1
37.5°	2192.4
40°	1572.7
42.5°	1027.2
45°	589.4
47.5°	312.1
50°	194.2
52.5°	134.7
55°	96.5
57.5°	69.6
60°	48.3
62.5°	31.4
65°	22.5
67.5°	20.2
70°	19.1
72.5°	14.6
75°	11.2
77.5°	10.1
80°	7.9
82.5°	5.6
85°	3.4
87.5°	2.2
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)