

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: P755825

Luminaire Tested: LD4D90BD010-EU4DR6070959030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755825
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-EU4DR6070959030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7805.8 lumens
Efficiency: N/A
Efficacy: 78.9 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

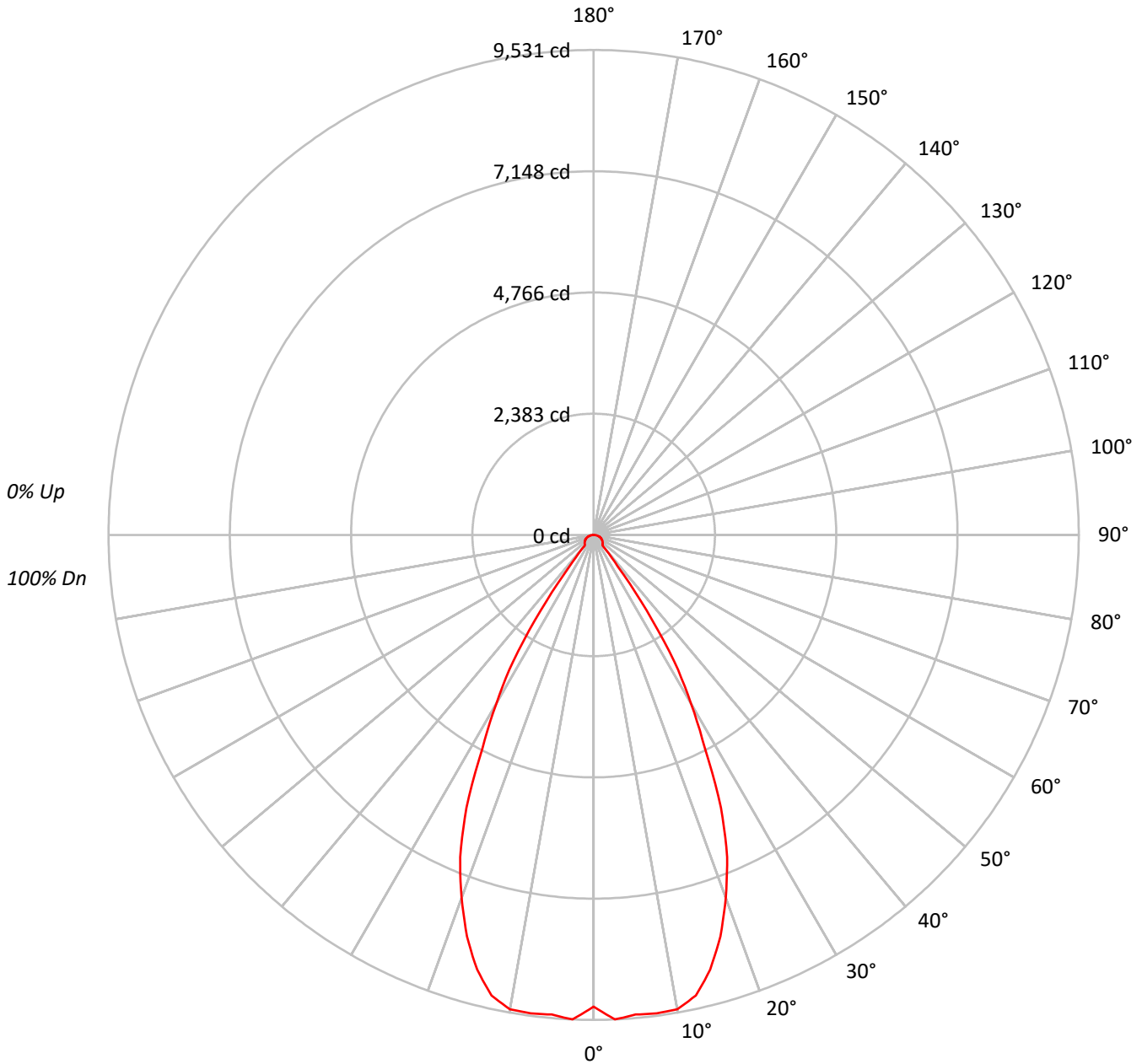
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1012891
5°	1037796
10°	1050328
15°	1000582
20°	882209
25°	713558
30°	482664
35°	241863
40°	39237
45°	38398
50°	39163
55°	39755
60°	40864
65°	41805
70°	42775
75°	43270
80°	41779
85°	34725

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 43270 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	904.3	11.6
10°-20°	2446.8	31.3
20°-30°	2632.5	33.7
30°-40°	1144.3	14.7
40°-50°	192.2	2.5
50°-60°	186.9	2.4
60°-70°	159.8	2.0
70°-80°	106.9	1.4
80°-90°	32.0	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°	5983.7	76.7
0°-40°	7128.0	91.3
0°-60°	7507.1	96.2
0°-90°	7805.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7805.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9270	
5°	9462	904
15°	8846	2447
25°	5919	2633
35°	1813	1144
45°	248	192
55°	209	187
65°	162	160
75°	102	107
85°	28	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9270.4
2.5°	9531.0
5°	9462.2
7.5°	9483.9
10°	9467.0
12.5°	9271.6
15°	8845.7
17.5°	8273.9
20°	7587.4
22.5°	6852.7
25°	5918.9
27.5°	4734.1
30°	3825.7
32.5°	2948.6
35°	1813.3
37.5°	775.7
40°	275.1
42.5°	253.4
45°	248.5
47.5°	240.1
50°	230.4
52.5°	219.6
55°	208.7
57.5°	197.9
60°	187.0
62.5°	174.9
65°	161.7
67.5°	148.4
70°	133.9
72.5°	118.2
75°	102.5
77.5°	84.5
80°	66.4
82.5°	47.1
85°	27.7
87.5°	9.7
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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