

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: P755906

Luminaire Tested: LD4D90BD010-EU4DR6570959030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8324.2 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

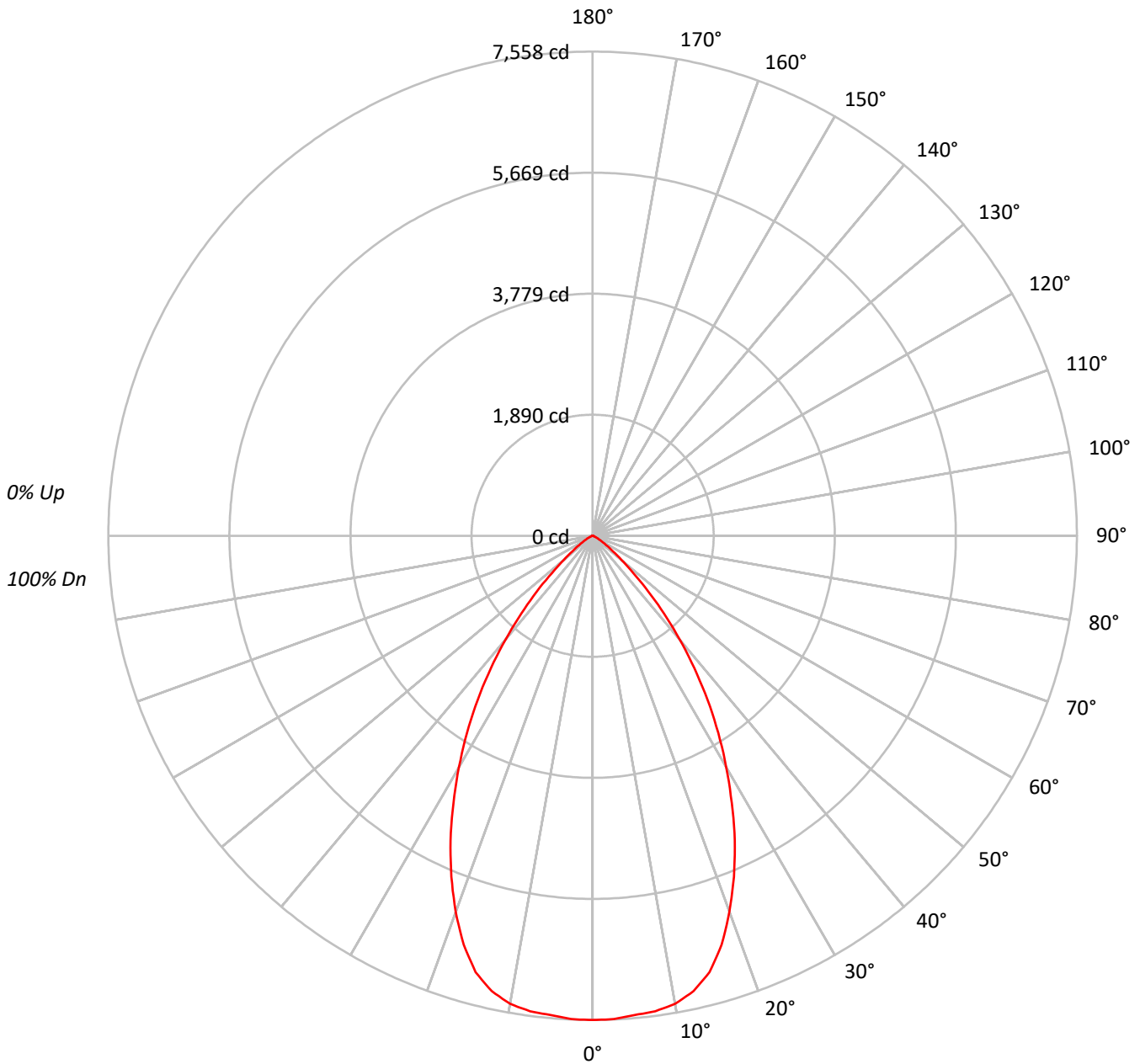
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	441422
5°	440306
10°	439935
15°	426369
20°	388159
25°	338254
30°	281335
35°	222913
40°	160891
45°	101642
50°	52981
55°	28165
60°	14788
65°	8140
70°	3415
75°	3768
80°	2623
85°	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 101642 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.8	8.6
10°-20°	1957.3	23.5
20°-30°	2392.5	28.7
30°-40°	1941.2	23.3
40°-50°	967.3	11.6
50°-60°	269.8	3.2
60°-70°	61.3	0.7
70°-80°	16.0	0.2
80°-90°	4.1	0.0
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°	5064.5	60.8
0°-40°	7005.7	84.2
0°-60°	8242.8	99.0
0°-90°	8324.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8324.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7558	
5°	7510	715
15°	7052	1957
25°	5249	2392
35°	3126	1941
45°	1231	967
55°	277	270
65°	59	61
75°	17	16
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7558.1
2.5°	7552.5
5°	7510.3
7.5°	7485.9
10°	7418.2
12.5°	7280.4
15°	7051.6
17.5°	6694.0
20°	6245.3
22.5°	5761.0
25°	5249.0
27.5°	4701.5
30°	4171.7
32.5°	3648.5
35°	3126.5
37.5°	2605.6
40°	2110.3
42.5°	1646.0
45°	1230.6
47.5°	857.4
50°	583.1
52.5°	402.1
55°	276.6
57.5°	186.6
60°	126.6
62.5°	87.7
65°	58.9
67.5°	30.0
70°	20.0
72.5°	18.9
75°	16.7
77.5°	11.1
80°	7.8
82.5°	5.6
85°	3.3
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)