

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: P755954

Luminaire Tested: LD4D90BD010-EU4DR7070959024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755954
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: LD4D90BD010-EU4DR7070959024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7806.0 lumens
Efficiency: N/A
Efficacy: 78.9 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): 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

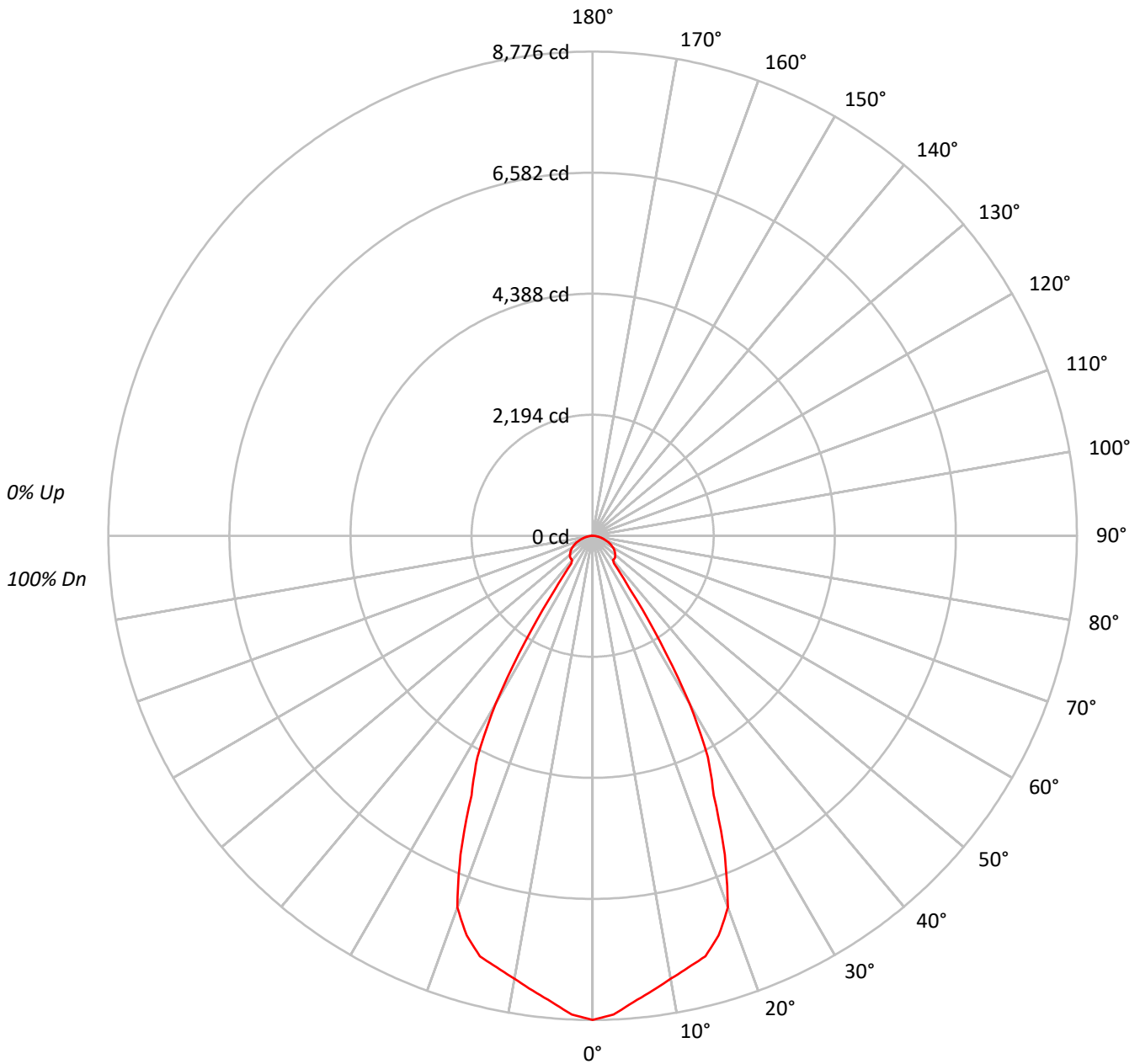


Downlight

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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
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°	958894
5°	930399
10°	904467
15°	892602
20°	833502
25°	626167
30°	442644
35°	156791
40°	82440
45°	87813
50°	90939
55°	92635
60°	93221
65°	91236
70°	86126
75°	79787
80°	70849
85°	57541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 93237 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.1	10.3
10°-20°	2194.7	28.1
20°-30°	2417.2	31.0
30°-40°	923.5	11.8
40°-50°	436.1	5.6
50°-60°	433.5	5.6
60°-70°	347.1	4.4
70°-80°	199.5	2.6
80°-90°	54.3	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°	5412.0	69.3
0°-40°	6335.6	81.2
0°-60°	7205.1	92.3
0°-90°	7806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7806.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8776	
5°	8483	800
15°	7891	2195
25°	5194	2417
35°	1176	924
45°	568	436
55°	486	434
65°	353	347
75°	189	200
85°	46	54
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8776.2
2.5°	8684.5
5°	8483.0
7.5°	8314.9
10°	8152.3
12.5°	8014.7
15°	7891.1
17.5°	7592.3
20°	7168.5
22.5°	6254.2
25°	5194.0
27.5°	4521.5
30°	3508.5
32.5°	2266.3
35°	1175.5
37.5°	635.0
40°	578.0
42.5°	573.9
45°	568.3
47.5°	555.8
50°	535.0
52.5°	511.3
55°	486.3
57.5°	458.5
60°	426.6
62.5°	390.5
65°	352.9
67.5°	311.3
70°	269.6
72.5°	227.9
75°	189.0
77.5°	148.7
80°	112.6
82.5°	79.2
85°	45.9
87.5°	18.1
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)