

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: P755836

Luminaire Tested: LD4D90BD010-EU4DR6070959035-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755836
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-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: 8710.2 lumens
Efficiency: N/A
Efficacy: 88.1 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

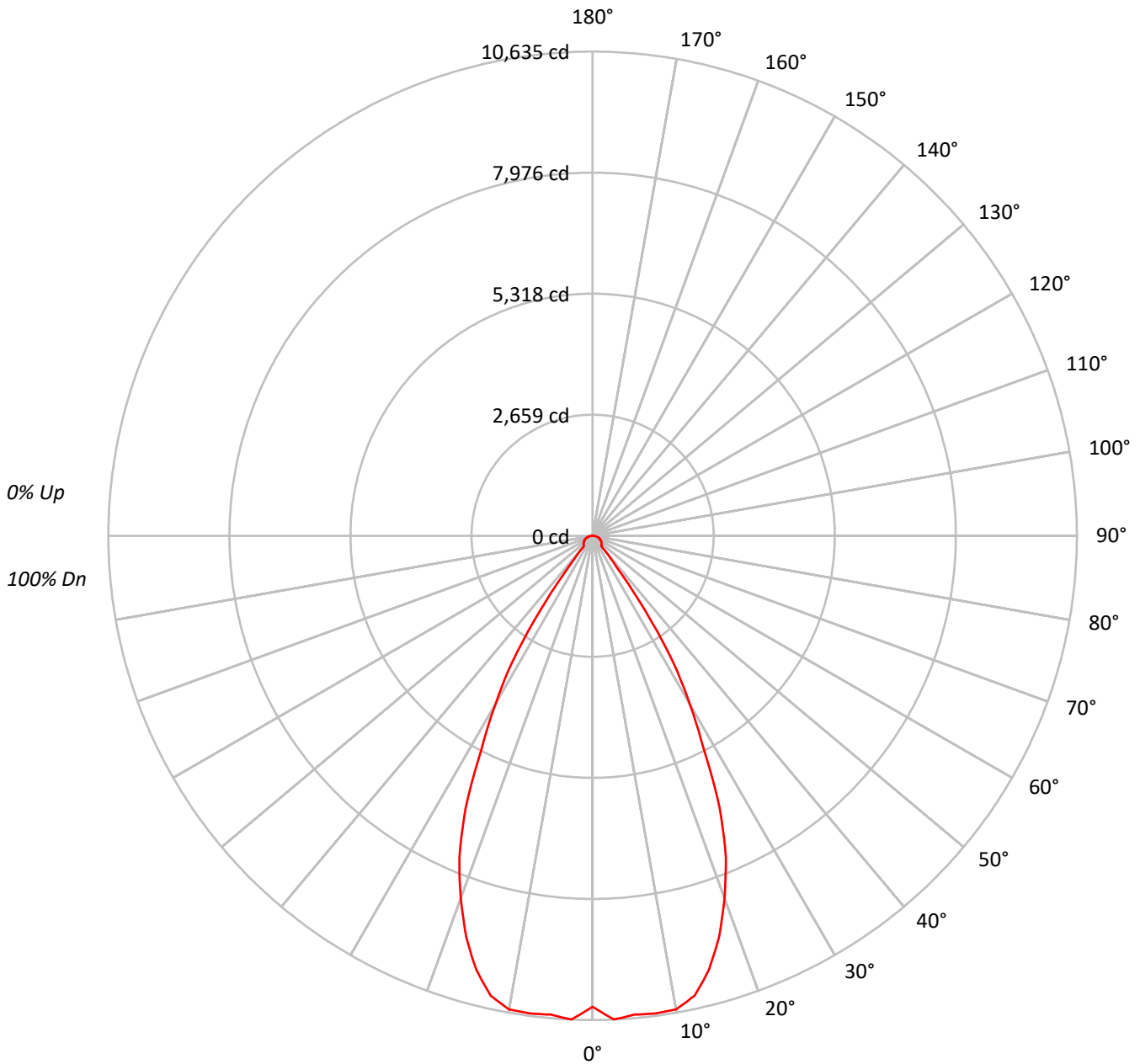
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1130237
5°	1158036
10°	1172025
15°	1116513
20°	984424
25°	796224
30°	538579
35°	269887
40°	43773
45°	42848
50°	43702
55°	44365
60°	45605
65°	46639
70°	47727
75°	48294
80°	46561
85°	38862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 48294 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.1	11.6
10°-20°	2730.3	31.3
20°-30°	2937.5	33.7
30°-40°	1276.9	14.7
40°-50°	214.4	2.5
50°-60°	208.5	2.4
60°-70°	178.4	2.0
70°-80°	119.3	1.4
80°-90°	35.7	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°	6676.9	76.7
0°-40°	7953.8	91.3
0°-60°	8376.8	96.2
0°-90°	8710.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8710.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10344	
5°	10558	###
15°	9871	2730
25°	6605	2938
35°	2023	1277
45°	277	214
55°	233	209
65°	180	178
75°	114	119
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10344.4
2.5°	10635.2
5°	10558.5
7.5°	10582.7
10°	10563.9
12.5°	10345.8
15°	9870.6
17.5°	9232.5
20°	8466.5
22.5°	7646.6
25°	6604.6
27.5°	5282.6
30°	4268.9
32.5°	3290.2
35°	2023.4
37.5°	865.6
40°	306.9
42.5°	282.7
45°	277.3
47.5°	267.9
50°	257.1
52.5°	245.0
55°	232.9
57.5°	220.8
60°	208.7
62.5°	195.2
65°	180.4
67.5°	165.6
70°	149.4
72.5°	131.9
75°	114.4
77.5°	94.2
80°	74.0
82.5°	52.5
85°	31.0
87.5°	10.8
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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