

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: P750237

Luminaire Tested: LD4D55D010-EU4DR5055659040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR5055659040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6319.8 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

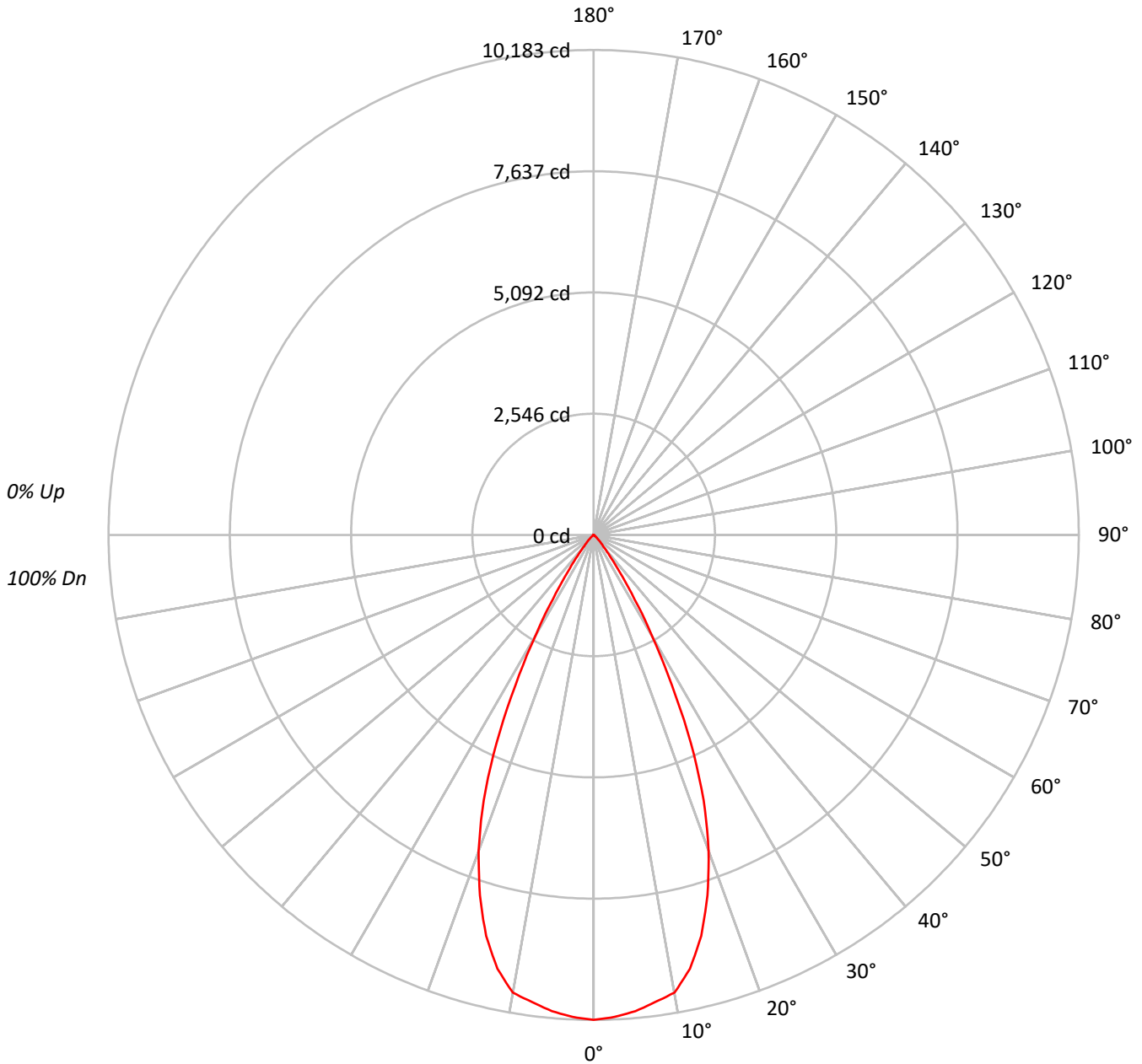
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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			100	
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95			95	
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90			90	
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			85	
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			80	
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76			76	
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72			72	
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69			69	
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			65	
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62			62	
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59			59	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1112591
5°	1100927
10°	1082791
15°	985967
20°	820445
25°	582394
30°	308255
35°	125620
40°	46654
45°	21354
50°	8754
55°	4572
60°	2251
65°	672
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21354 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	948.8	15.0
10°-20°	2397.8	37.9
20°-30°	2153.8	34.1
30°-40°	674.3	10.7
40°-50°	118.1	1.9
50°-60°	23.5	0.4
60°-70°	3.6	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	5500.3	87.0
0°-40°	6174.7	97.7
0°-60°	6316.3	99.9
0°-90°	6319.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6319.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10183	
5°	10038	949
15°	8716	2398
25°	4831	2154
35°	942	674
45°	138	118
55°	24	24
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10182.9
2.5°	10132.2
5°	10037.8
7.5°	9893.6
10°	9759.6
12.5°	9330.4
15°	8716.5
17.5°	7937.0
20°	7056.2
22.5°	6037.1
25°	4830.9
27.5°	3551.7
30°	2443.3
32.5°	1590.8
35°	941.8
37.5°	540.9
40°	327.1
42.5°	212.9
45°	138.2
47.5°	84.1
50°	51.5
52.5°	35.2
55°	24.0
57.5°	16.3
60°	10.3
62.5°	6.0
65°	2.6
67.5°	0.9
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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