

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: P749583

Luminaire Tested: LD4D50D010-EU4DR6040509030-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749583
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: LD4D50D010-EU4DR6040509030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853.3 lumens
Efficiency: N/A
Efficacy: 103.3 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

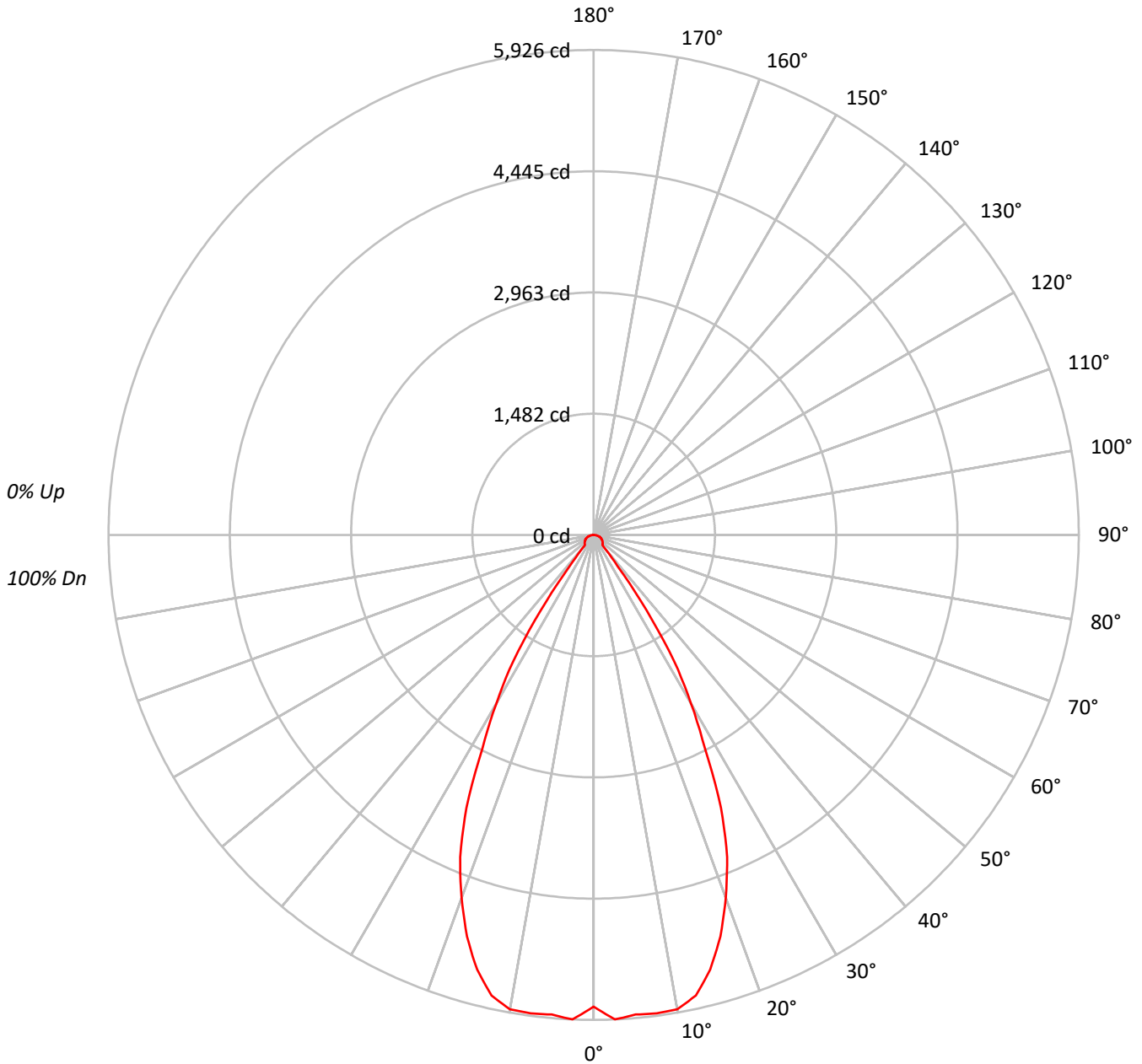
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	629757
5°	645247
10°	653041
15°	622110
20°	548506
25°	443646
30°	300092
35°	150376
40°	24390
45°	23873
50°	24358
55°	24726
60°	25414
65°	25983
70°	26611
75°	26933
80°	25986
85°	21688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 26933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.3	11.6
10°-20°	1521.3	31.3
20°-30°	1636.8	33.7
30°-40°	711.5	14.7
40°-50°	119.5	2.5
50°-60°	116.2	2.4
60°-70°	99.4	2.0
70°-80°	66.5	1.4
80°-90°	19.9	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°	3720.3	76.7
0°-40°	4431.8	91.3
0°-60°	4667.5	96.2
0°-90°	4853.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4853.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5764	
5°	5883	562
15°	5500	1521
25°	3680	1637
35°	1127	711
45°	154	119
55°	130	116
65°	100	99
75°	64	67
85°	17	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5763.8
2.5°	5925.8
5°	5883.1
7.5°	5896.6
10°	5886.1
12.5°	5764.5
15°	5499.8
17.5°	5144.2
20°	4717.4
22.5°	4260.6
25°	3680.0
27.5°	2943.4
30°	2378.6
32.5°	1833.3
35°	1127.4
37.5°	482.3
40°	171.0
42.5°	157.5
45°	154.5
47.5°	149.3
50°	143.3
52.5°	136.5
55°	129.8
57.5°	123.0
60°	116.3
62.5°	108.8
65°	100.5
67.5°	92.3
70°	83.3
72.5°	73.5
75°	63.8
77.5°	52.5
80°	41.3
82.5°	29.3
85°	17.3
87.5°	6.0
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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(END OF REPORT)