

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: P748790

Luminaire Tested: LD4D45BD010-EU4DR6040509027-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748790
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: LD4D45BD010-EU4DR6040509027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.3 lumens
Efficiency: N/A
Efficacy: 103.7 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

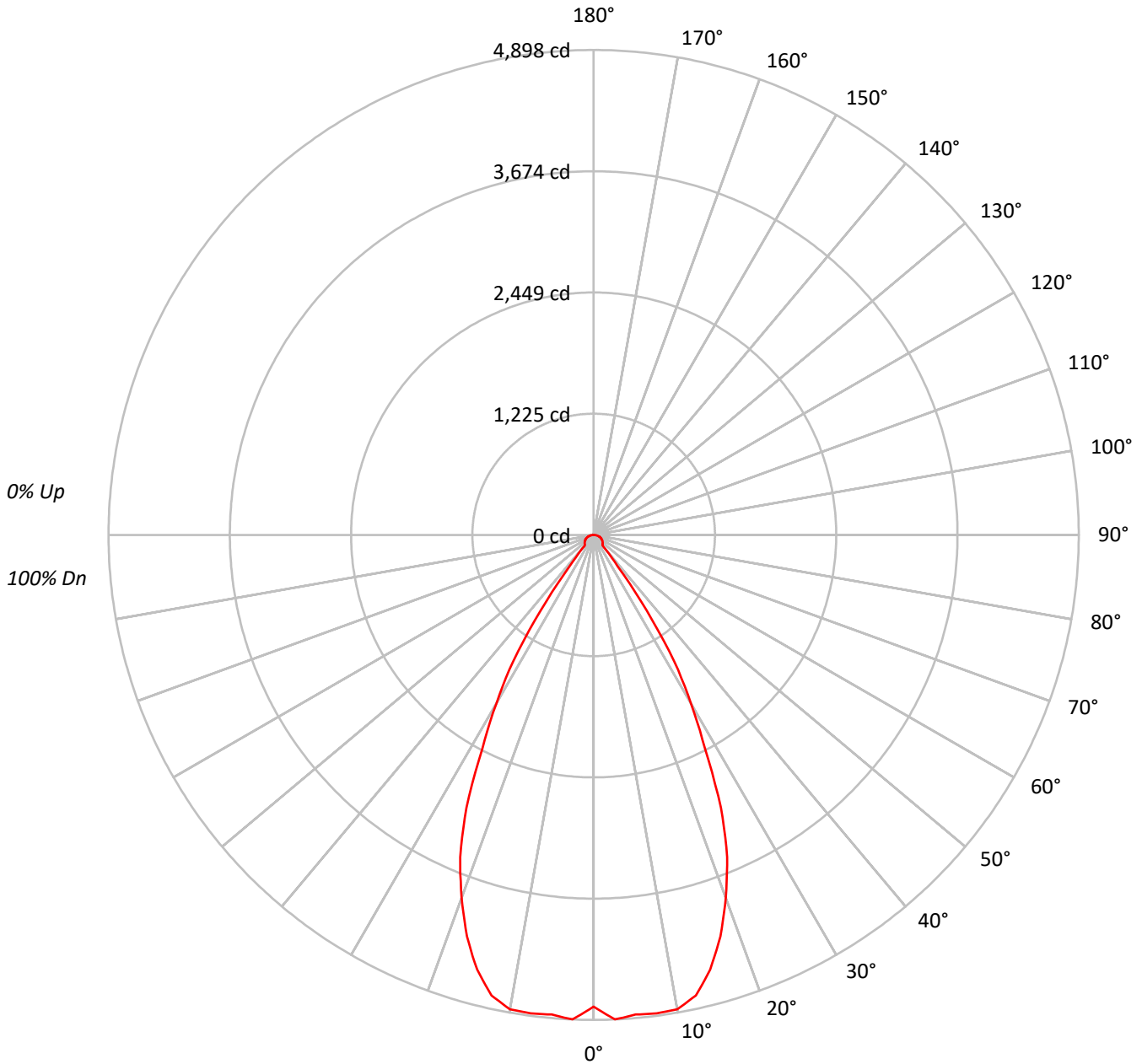
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	520507
5°	533299
10°	539743
15°	514176
20°	453348
25°	366683
30°	248025
35°	124286
40°	20168
45°	19732
50°	20126
55°	20440
60°	21000
65°	21484
70°	21979
75°	22247
80°	21456
85°	17927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 22247 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	11.6
10°-20°	1257.3	31.3
20°-30°	1352.8	33.7
30°-40°	588.0	14.7
40°-50°	98.8	2.5
50°-60°	96.0	2.4
60°-70°	82.2	2.0
70°-80°	55.0	1.4
80°-90°	16.5	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°	3074.9	76.7
0°-40°	3662.9	91.3
0°-60°	3857.7	96.2
0°-90°	4011.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4764	
5°	4862	465
15°	4546	1257
25°	3042	1353
35°	932	588
45°	128	99
55°	107	96
65°	83	82
75°	53	55
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4763.9
2.5°	4897.8
5°	4862.4
7.5°	4873.6
10°	4864.9
12.5°	4764.5
15°	4545.6
17.5°	4251.8
20°	3899.0
22.5°	3521.4
25°	3041.6
27.5°	2432.8
30°	1965.9
32.5°	1515.2
35°	931.8
37.5°	398.6
40°	141.4
42.5°	130.2
45°	127.7
47.5°	123.4
50°	118.4
52.5°	112.8
55°	107.3
57.5°	101.7
60°	96.1
62.5°	89.9
65°	83.1
67.5°	76.3
70°	68.8
72.5°	60.8
75°	52.7
77.5°	43.4
80°	34.1
82.5°	24.2
85°	14.3
87.5°	5.0
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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