

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: P748675

Luminaire Tested: LD4D45BD010-EU4DR5040509040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748675
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: LD4D45BD010-EU4DR5040509040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300.7 lumens
Efficiency: N/A
Efficacy: 111.1 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

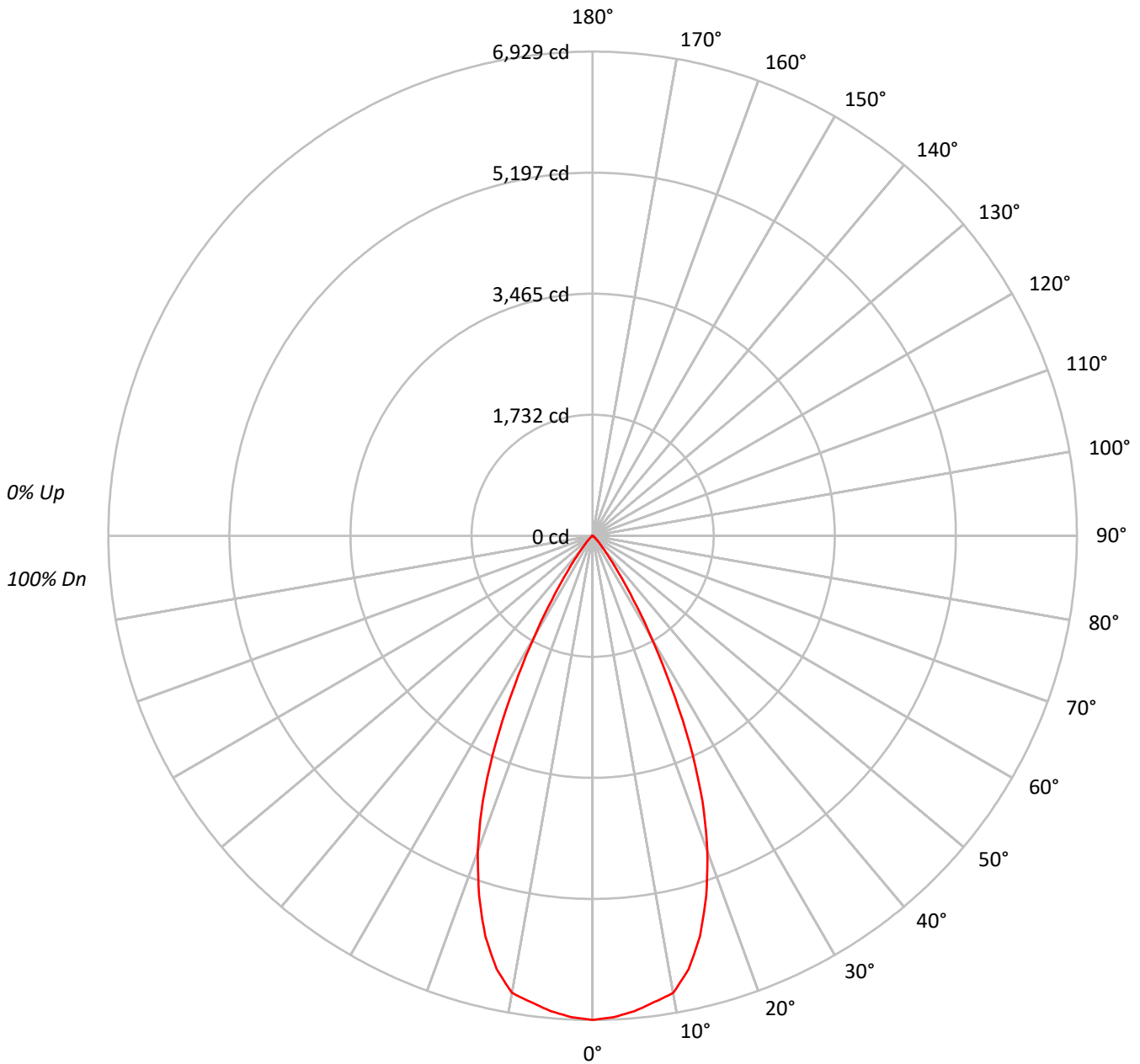
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	757111
5°	749178
10°	736839
15°	670953
20°	558307
25°	396315
30°	209772
35°	85485
40°	31749
45°	14540
50°	5966
55°	3124
60°	1530
65°	465
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14540 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.6	15.0
10°-20°	1631.7	37.9
20°-30°	1465.7	34.1
30°-40°	458.9	10.7
40°-50°	80.4	1.9
50°-60°	16.0	0.4
60°-70°	2.4	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°	3743.0	87.0
0°-40°	4201.9	97.7
0°-60°	4298.3	99.9
0°-90°	4300.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6929	
5°	6831	646
15°	5932	1632
25°	3287	1466
35°	641	459
45°	94	80
55°	16	16
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6929.4
2.5°	6895.0
5°	6830.7
7.5°	6732.6
10°	6641.4
12.5°	6349.3
15°	5931.6
17.5°	5401.1
20°	4801.7
22.5°	4108.2
25°	3287.4
27.5°	2416.9
30°	1662.7
32.5°	1082.6
35°	640.9
37.5°	368.1
40°	222.6
42.5°	144.9
45°	94.1
47.5°	57.3
50°	35.1
52.5°	24.0
55°	16.4
57.5°	11.1
60°	7.0
62.5°	4.1
65°	1.8
67.5°	0.6
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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