

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: P785080

Luminaire Tested: LER4DD45BD010-EC4DR7040509035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR7040509035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2445.7 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): 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

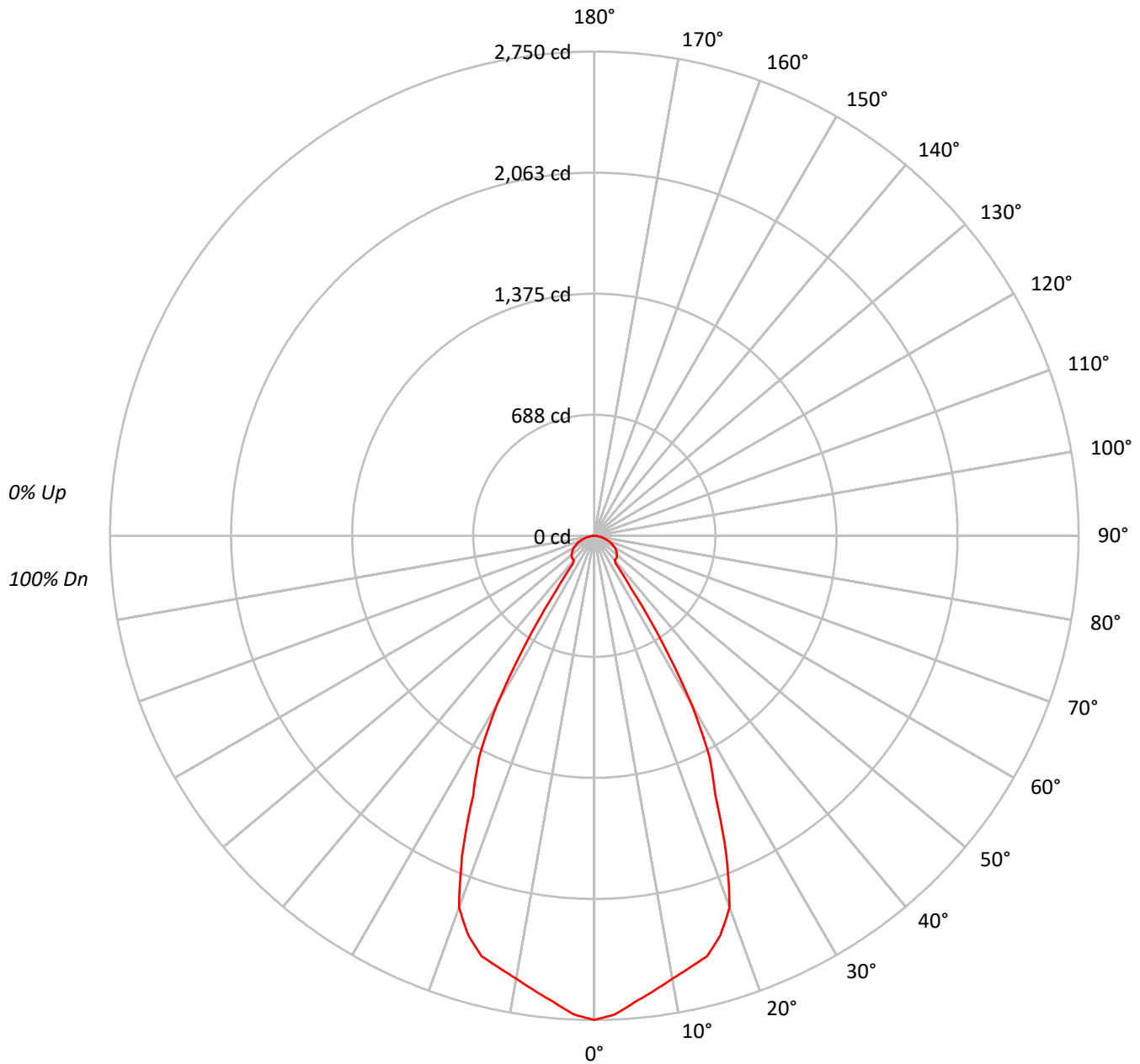


Downlight

TEST NUMBER: P785080

CATALOG NUMBER: LER4DD45BD010-EC4DR7040509035-4LBDP1B

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	300423
5°	291492
10°	283368
15°	279654
20°	261137
25°	196181
30°	138679
35°	49125
40°	25830
45°	27520
50°	28489
55°	29031
60°	29194
65°	28594
70°	26994
75°	24991
80°	22211
85°	18052

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 29222 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	10.3
10°-20°	687.6	28.1
20°-30°	757.3	31.0
30°-40°	289.3	11.8
40°-50°	136.6	5.6
50°-60°	135.8	5.6
60°-70°	108.7	4.4
70°-80°	62.5	2.6
80°-90°	17.0	0.7
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°	1695.6	69.3
0°-40°	1984.9	81.2
0°-60°	2257.4	92.3
0°-90°	2445.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2750	
5°	2658	251
15°	2472	688
25°	1627	757
35°	368	289
45°	178	137
55°	152	136
65°	111	109
75°	59	63
85°	14	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2749.6
2.5°	2720.9
5°	2657.7
7.5°	2605.1
10°	2554.1
12.5°	2511.0
15°	2472.3
17.5°	2378.7
20°	2245.9
22.5°	1959.4
25°	1627.3
27.5°	1416.6
30°	1099.2
32.5°	710.0
35°	368.3
37.5°	198.9
40°	181.1
42.5°	179.8
45°	178.1
47.5°	174.1
50°	167.6
52.5°	160.2
55°	152.4
57.5°	143.7
60°	133.6
62.5°	122.3
65°	110.6
67.5°	97.5
70°	84.5
72.5°	71.4
75°	59.2
77.5°	46.6
80°	35.3
82.5°	24.8
85°	14.4
87.5°	5.7
90°	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)