

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: P785083

Luminaire Tested: LER4DD45BD010-EC4DR7040509035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785083
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-EC4DR7040509035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3283.2 lumens
Efficiency: N/A
Efficacy: 84.8 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

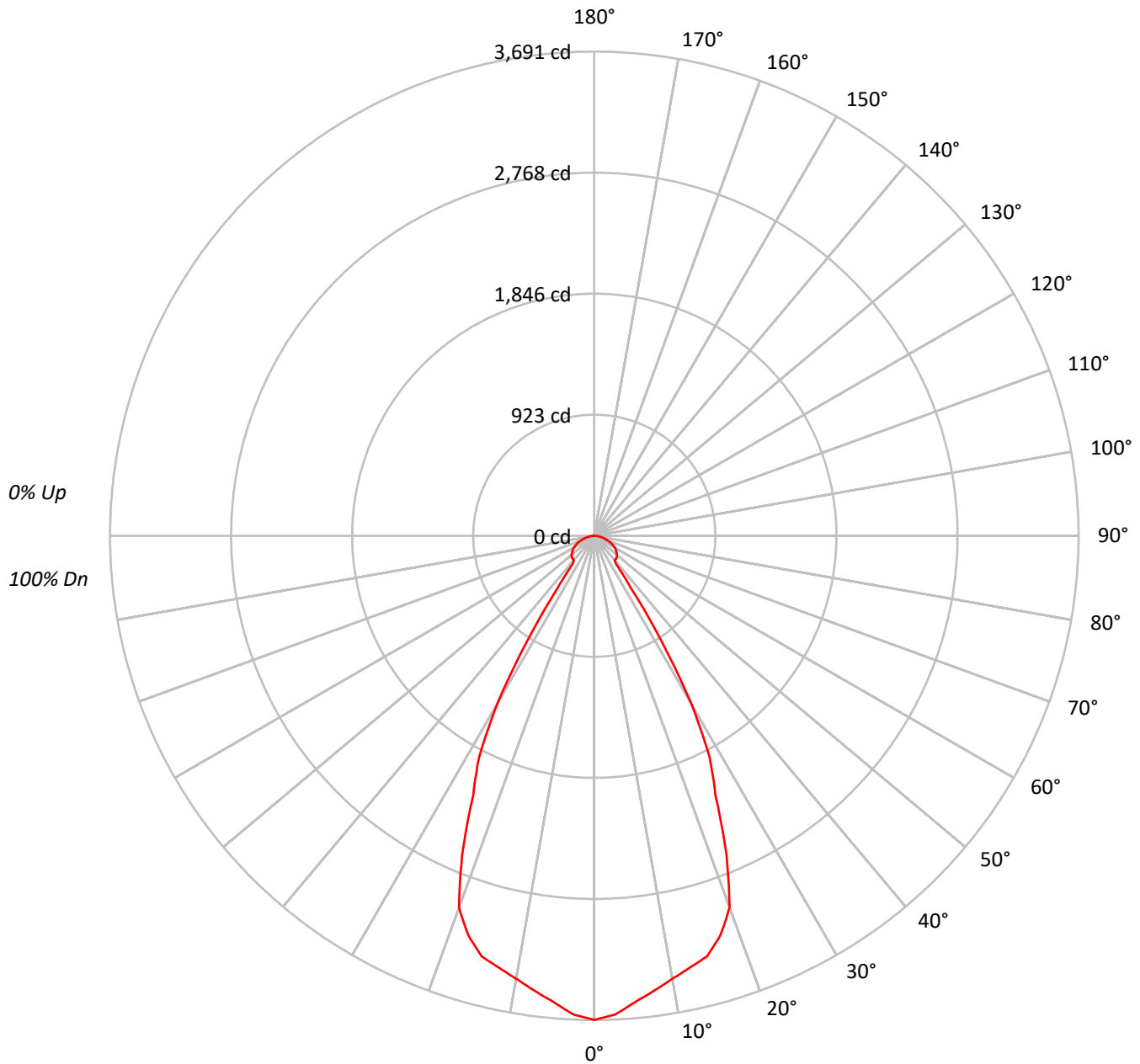


Downlight

TEST NUMBER: P785083

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Luminous Intensity Polar Plot





TEST NUMBER: P785083

CATALOG NUMBER: LER4DD45BD010-EC4DR7040509035-4LB DP1MW

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	100				
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91	91	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83	83	83				
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76				
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70	70	70				
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65	65	65				
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61	61	61				
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	57				
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50				
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	403314
5°	391332
10°	380424
15°	375429
20°	350574
25°	263366
30°	186179
35°	65944
40°	34673
45°	36930
50°	38245
55°	38974
60°	39203
65°	38366
70°	36226
75°	33561
80°	29762
85°	24195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 39227 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	10.3
10°-20°	923.1	28.1
20°-30°	1016.7	31.0
30°-40°	388.4	11.8
40°-50°	183.4	5.6
50°-60°	182.4	5.6
60°-70°	146.0	4.4
70°-80°	83.9	2.6
80°-90°	22.8	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°	2276.3	69.3
0°-40°	2664.8	81.2
0°-60°	3030.5	92.3
0°-90°	3283.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3283.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3691	
5°	3568	337
15°	3319	923
25°	2185	1017
35°	494	388
45°	239	183
55°	205	182
65°	148	146
75°	80	84
85°	19	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3691.3
2.5°	3652.7
5°	3568.0
7.5°	3497.3
10°	3428.9
12.5°	3371.0
15°	3319.0
17.5°	3193.4
20°	3015.1
22.5°	2630.5
25°	2184.6
27.5°	1901.8
30°	1475.7
32.5°	953.2
35°	494.4
37.5°	267.1
40°	243.1
42.5°	241.4
45°	239.0
47.5°	233.8
50°	225.0
52.5°	215.1
55°	204.6
57.5°	192.9
60°	179.4
62.5°	164.2
65°	148.4
67.5°	130.9
70°	113.4
72.5°	95.8
75°	79.5
77.5°	62.5
80°	47.3
82.5°	33.3
85°	19.3
87.5°	7.6
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)