

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: P785085

Luminaire Tested: LER4DD45BD010-EC4DR7040509040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785085
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-EC4DR7040509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4399.8 lumens
Efficiency: N/A
Efficacy: 113.7 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

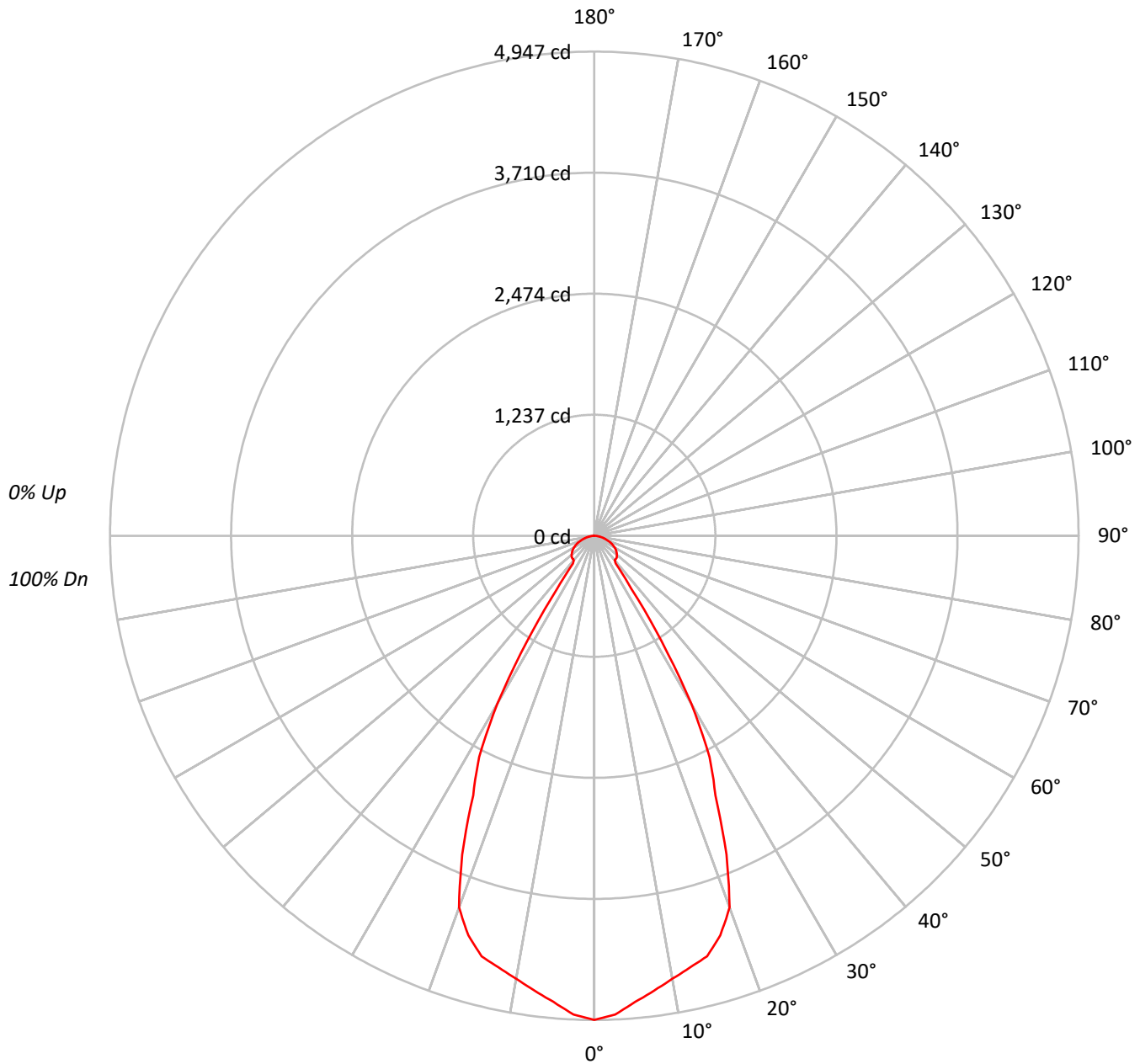


Downlight

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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°	540491
5°	524426
10°	509809
15°	503124
20°	469812
25°	352939
30°	249501
35°	88379
40°	46469
45°	49492
50°	51249
55°	52213
60°	52533
65°	51422
70°	48526
75°	44959
80°	39892
85°	32344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 52566 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.0	10.3
10°-20°	1237.1	28.1
20°-30°	1362.5	31.0
30°-40°	520.6	11.8
40°-50°	245.8	5.6
50°-60°	244.4	5.6
60°-70°	195.6	4.4
70°-80°	112.4	2.6
80°-90°	30.5	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°	3050.5	69.3
0°-40°	3571.1	81.2
0°-60°	4061.2	92.3
0°-90°	4399.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4399.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4947	
5°	4782	451
15°	4448	1237
25°	2928	1362
35°	663	521
45°	320	246
55°	274	244
65°	199	196
75°	106	112
85°	26	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4946.8
2.5°	4895.1
5°	4781.5
7.5°	4686.7
10°	4595.1
12.5°	4517.6
15°	4447.9
17.5°	4279.5
20°	4040.6
22.5°	3525.2
25°	2927.6
27.5°	2548.6
30°	1977.6
32.5°	1277.4
35°	662.6
37.5°	357.9
40°	325.8
42.5°	323.5
45°	320.3
47.5°	313.3
50°	301.5
52.5°	288.2
55°	274.1
57.5°	258.5
60°	240.4
62.5°	220.1
65°	198.9
67.5°	175.4
70°	151.9
72.5°	128.4
75°	106.5
77.5°	83.8
80°	63.4
82.5°	44.6
85°	25.8
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)