

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: P785066

Luminaire Tested: LER4DD45BD010-EC4DR6540509050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR6540509050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039.1 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

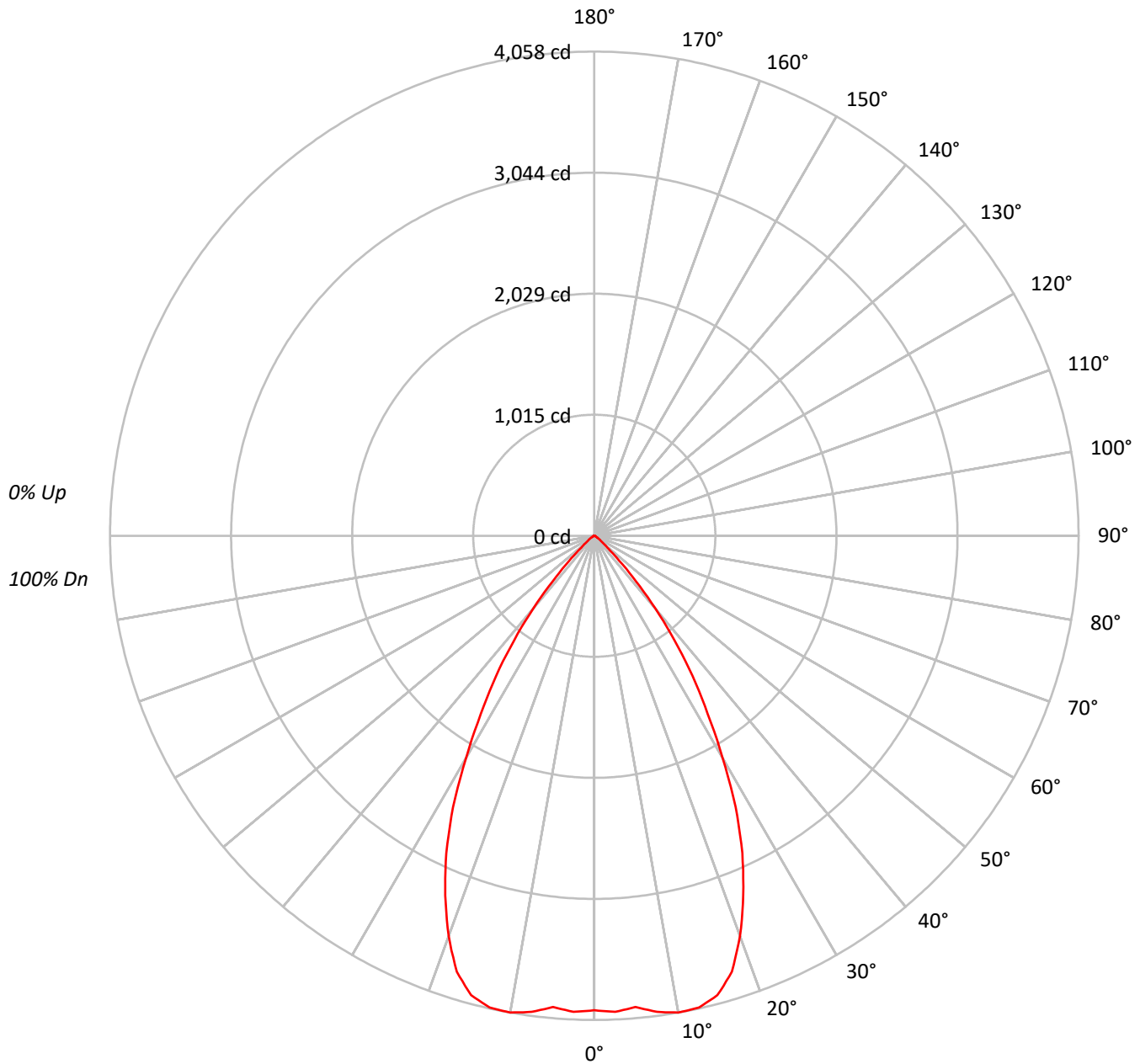


Downlight

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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	434508
5°	434863
10°	450176
15°	450922
20°	415141
25°	353723
30°	270785
35°	191311
40°	112920
45°	45846
50°	16624
55°	9258
60°	5310
65°	2921
70°	3067
75°	2406
80°	2517
85°	2131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45846 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.9	9.5
10°-20°	1104.6	27.3
20°-30°	1325.3	32.8
30°-40°	890.6	22.1
40°-50°	266.6	6.6
50°-60°	47.0	1.2
60°-70°	13.4	0.3
70°-80°	6.6	0.2
80°-90°	2.1	0.1
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°	2812.8	69.6
0°-40°	3703.4	91.7
0°-60°	4017.1	99.5
0°-90°	4039.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4039.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3977	
5°	3965	383
15°	3986	1105
25°	2934	1325
35°	1434	891
45°	297	267
55°	49	47
65°	11	13
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3976.8
2.5°	3993.7
5°	3964.9
7.5°	4024.8
10°	4057.6
12.5°	4049.7
15°	3986.4
17.5°	3831.5
20°	3570.4
22.5°	3263.0
25°	2934.1
27.5°	2562.8
30°	2146.3
32.5°	1768.8
35°	1434.3
37.5°	1103.7
40°	791.7
42.5°	517.1
45°	296.7
47.5°	157.1
50°	97.8
52.5°	67.8
55°	48.6
57.5°	35.0
60°	24.3
62.5°	15.8
65°	11.3
67.5°	10.2
70°	9.6
72.5°	7.3
75°	5.7
77.5°	5.1
80°	4.0
82.5°	2.8
85°	1.7
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)