

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: P754457

Luminaire Tested: LD4D80BD010-EU4DR7070959050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754457
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: LD4D80BD010-EU4DR7070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4761.7 lumens
Efficiency: N/A
Efficacy: 60.4 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): 78.9
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

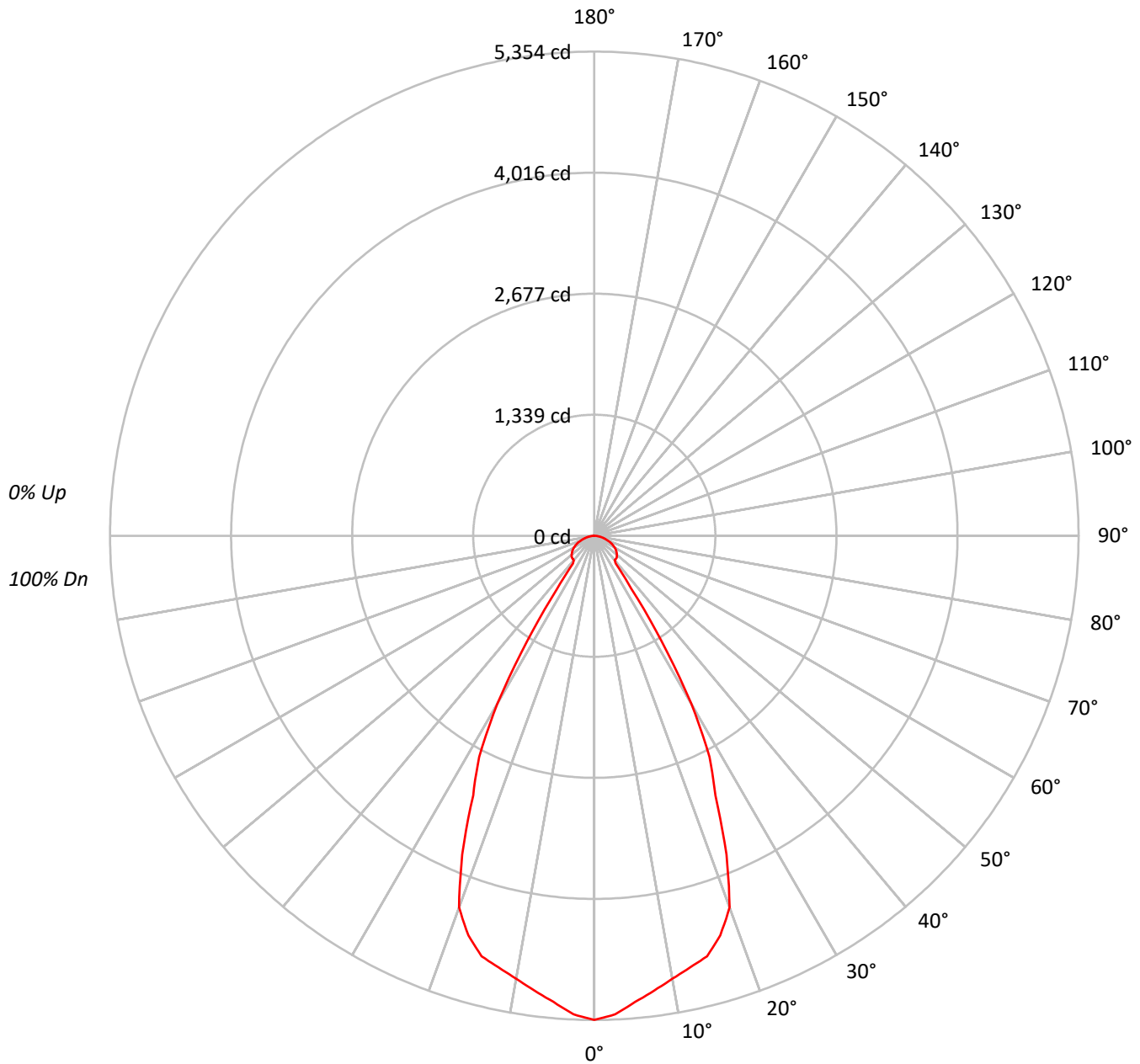


Downlight

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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°	584927
5°	567540
10°	551725
15°	544479
20°	508438
25°	381957
30°	270015
35°	95649
40°	50291
45°	53571
50°	55464
55°	56518
60°	56859
65°	55662
70°	52519
75°	48674
80°	43227
85°	35102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 56877 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	10.3
10°-20°	1338.8	28.1
20°-30°	1474.5	31.0
30°-40°	563.4	11.8
40°-50°	266.0	5.6
50°-60°	264.5	5.6
60°-70°	211.7	4.4
70°-80°	121.7	2.6
80°-90°	33.1	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°	3301.3	69.3
0°-40°	3864.7	81.2
0°-60°	4395.1	92.3
0°-90°	4761.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5354	
5°	5175	488
15°	4814	1339
25°	3168	1474
35°	717	563
45°	347	266
55°	297	264
65°	215	212
75°	115	122
85°	28	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5353.5
2.5°	5297.5
5°	5174.6
7.5°	5072.1
10°	4972.9
12.5°	4889.0
15°	4813.5
17.5°	4631.3
20°	4372.8
22.5°	3815.1
25°	3168.3
27.5°	2758.1
30°	2140.2
32.5°	1382.4
35°	717.1
37.5°	387.4
40°	352.6
42.5°	350.1
45°	346.7
47.5°	339.0
50°	326.3
52.5°	311.9
55°	296.7
57.5°	279.7
60°	260.2
62.5°	238.2
65°	215.3
67.5°	189.9
70°	164.4
72.5°	139.0
75°	115.3
77.5°	90.7
80°	68.7
82.5°	48.3
85°	28.0
87.5°	11.0
90°	0.0



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— 0°-180°







(END OF REPORT)