

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: P784752

Luminaire Tested: LER4DD40BD010-EC4DR5040509050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR5040509050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3707.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

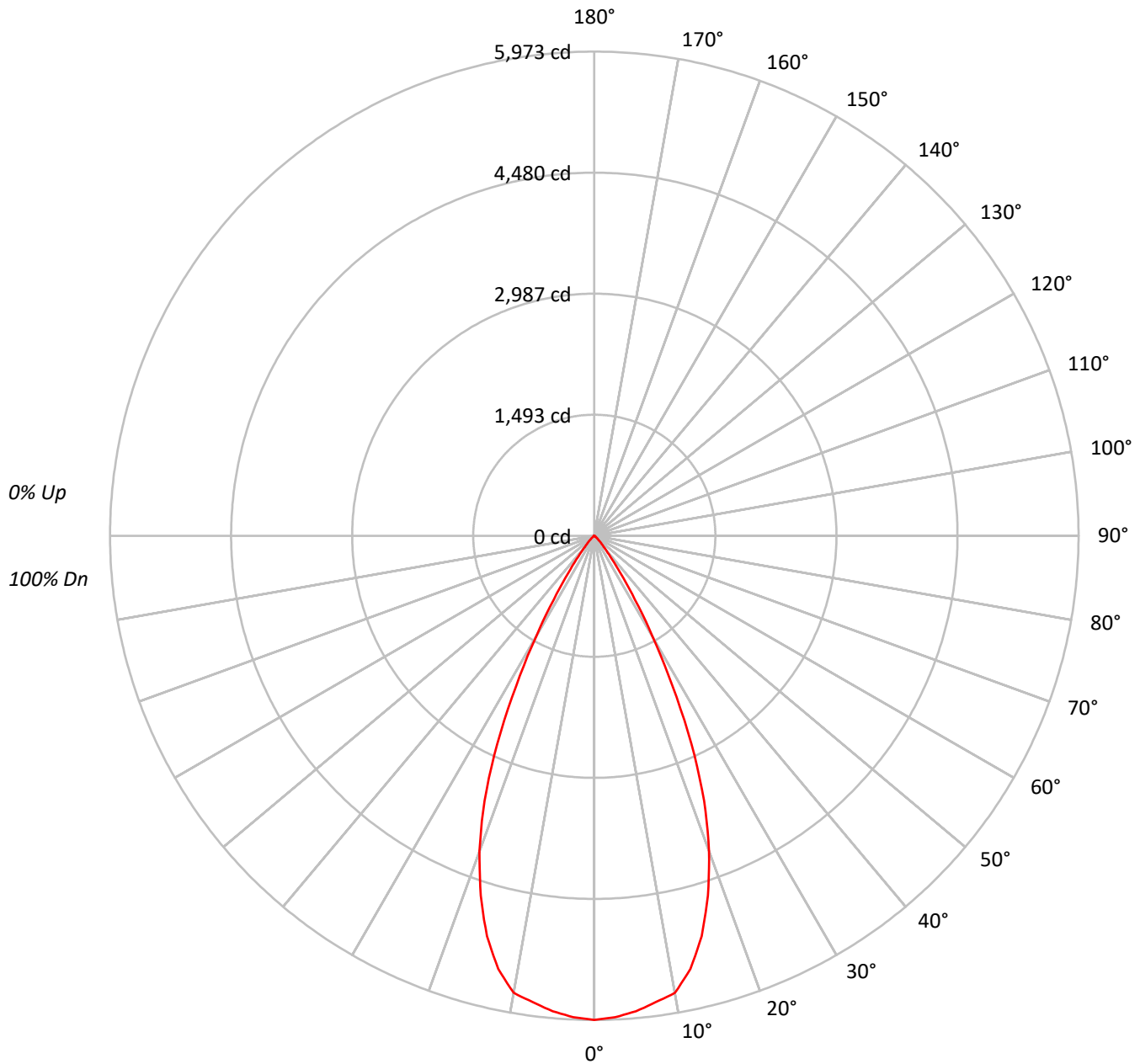


Downlight

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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	114	112	109	107	112	110	108	106	106	104	102		102	101	99		98
2	109	105	101	98	107	103	100	97	100	98	95		97	95	93		95
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	79	86	82	79		85	81	78		83
6	92	84	79	75	91	83	79	75	82	78	74		81	77	74		79
7	88	80	75	71	87	79	74	71	78	74	71		77	73	70		76
8	85	76	71	67	84	76	71	67	75	70	67		74	70	67		73
9	81	73	68	64	80	72	67	64	71	67	64		71	67	64		70
10	78	70	64	61	77	69	64	61	68	64	61		68	64	61		67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	652647
5°	645807
10°	635167
15°	578369
20°	481265
25°	341631
30°	180830
35°	73694
40°	27371
45°	12531
50°	5133
55°	2686
60°	1311
65°	388
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.5	15.0
10°-20°	1406.5	37.9
20°-30°	1263.4	34.1
30°-40°	395.6	10.7
40°-50°	69.3	1.9
50°-60°	13.8	0.4
60°-70°	2.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	3226.5	87.0
0°-40°	3622.1	97.7
0°-60°	3705.2	99.9
0°-90°	3707.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5973	
5°	5888	557
15°	5113	1407
25°	2834	1263
35°	552	396
45°	81	69
55°	14	14
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5973.3
2.5°	5943.6
5°	5888.2
7.5°	5803.6
10°	5725.0
12.5°	5473.2
15°	5113.1
17.5°	4655.8
20°	4139.1
22.5°	3541.4
25°	2833.8
27.5°	2083.4
30°	1433.3
32.5°	933.2
35°	552.5
37.5°	317.3
40°	191.9
42.5°	124.9
45°	81.1
47.5°	49.4
50°	30.2
52.5°	20.6
55°	14.1
57.5°	9.6
60°	6.0
62.5°	3.5
65°	1.5
67.5°	0.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)