

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: P1500374

Luminaire Tested: LD4C100D010 EU41009040 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EU41009040 4LBMH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBM TRII FINISH
Light Source: -
Ballast/Driver: -

Summary

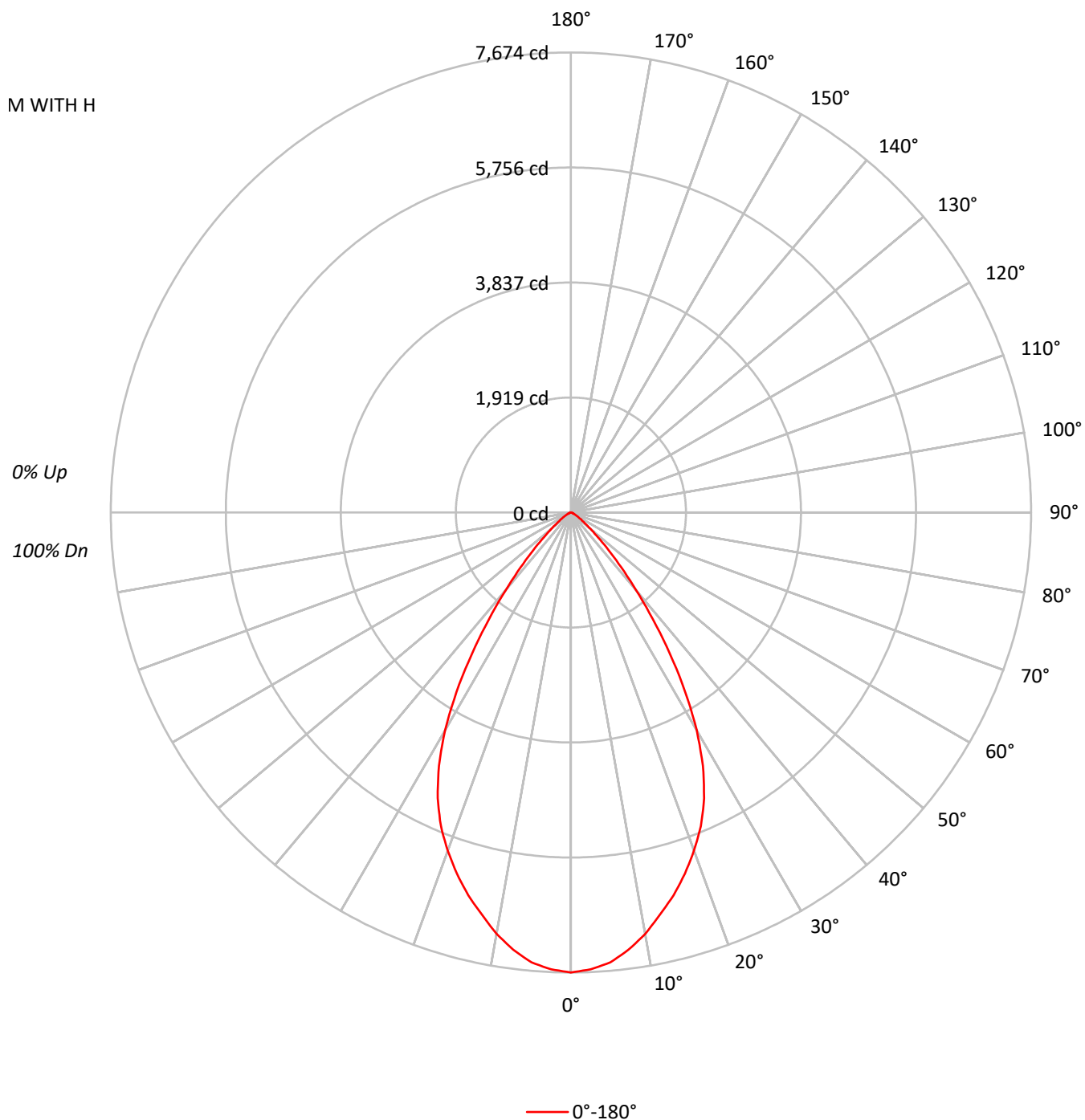
Lumens per Lamp: N/A
Luminaire Lumens: 7739.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
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

TEST NUMBER: P1500374

CATALOG NUMBER: LD4C100D010 EU41009040 4LBMH

Luminous Intensity Polar Plot



TEST NUMBER: P1500374

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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	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	86	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	942741
5°	929052
10°	890232
15°	840822
20°	784859
25°	712471
30°	594843
35°	430942
40°	269765
45°	154195
50°	80407
55°	45044
60°	28699
65°	16977
70°	12608
75°	5554
80°	8278
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 154195 cd/sqm

TEST NUMBER: P1500374

CATALOG NUMBER: LD4C100D010 EU41009040 4LBMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.1	9.1
10°-20°	1852.4	23.9
20°-30°	2380.7	30.8
30°-40°	1791.2	23.1
40°-50°	719.4	9.3
50°-60°	204.5	2.6
60°-70°	64.7	0.8
70°-80°	18.5	0.2
80°-90°	1.6	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°	4939.2	63.8
0°-40°	6730.3	87.0
0°-60°	7654.2	98.9
0°-90°	7739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7739.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7674	
5°	7534	706
15°	6611	1852
25°	5256	2381
35°	2873	1791
45°	888	719
55°	210	204
65°	58	65
75°	12	18
85°	0	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7673.7
2.5°	7627.0
5°	7533.5
7.5°	7358.2
10°	7136.2
12.5°	6868.0
15°	6610.9
17.5°	6318.8
20°	6003.3
22.5°	5665.0
25°	5256.0
27.5°	4765.3
30°	4193.2
32.5°	3550.6
35°	2873.4
37.5°	2242.4
40°	1682.1
42.5°	1238.1
45°	887.5
47.5°	607.6
50°	420.7
52.5°	292.1
55°	210.3
57.5°	151.9
60°	116.8
62.5°	81.8
65°	58.4
67.5°	46.7
70°	35.1
72.5°	23.4
75°	11.7
77.5°	11.7
80°	11.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)