

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: P1500375

Luminaire Tested: LD4C100D010 EU41009050 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500375
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 EU41009050 4LBMH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBM TRII FINISH
Light Source: -
Ballast/Driver: -

Summary

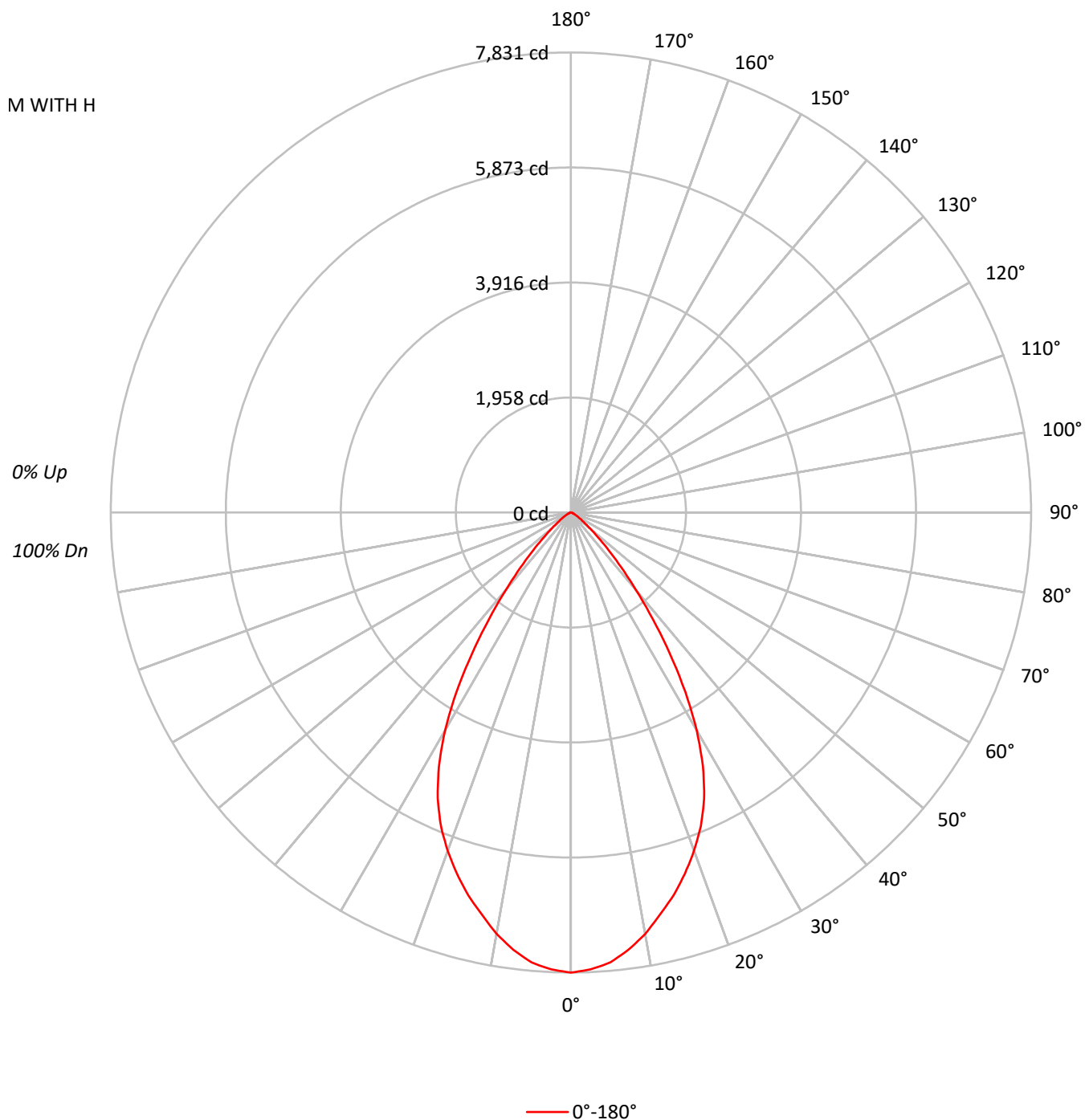
Lumens per Lamp: N/A
Luminaire Lumens: 7897.9 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	962115
5°	948142
10°	908520
15°	858094
20°	800979
25°	727111
30°	607071
35°	439791
40°	275298
45°	157357
50°	82050
55°	45965
60°	29288
65°	17325
70°	12859
75°	5649
80°	8419
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 157357 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.6	9.1
10°-20°	1890.5	23.9
20°-30°	2429.6	30.8
30°-40°	1827.9	23.1
40°-50°	734.1	9.3
50°-60°	208.7	2.6
60°-70°	66.1	0.8
70°-80°	18.8	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°	5040.7	63.8
0°-40°	6868.6	87.0
0°-60°	7811.4	98.9
0°-90°	7897.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7897.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7831	
5°	7688	721
15°	6747	1890
25°	5364	2430
35°	2932	1828
45°	906	734
55°	215	209
65°	60	66
75°	12	19
85°	0	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7831.4
2.5°	7783.7
5°	7688.3
7.5°	7509.4
10°	7282.8
12.5°	7009.1
15°	6746.7
17.5°	6448.6
20°	6126.6
22.5°	5781.4
25°	5364.0
27.5°	4863.2
30°	4279.4
32.5°	3623.5
35°	2932.4
37.5°	2288.5
40°	1716.6
42.5°	1263.5
45°	905.7
47.5°	620.1
50°	429.3
52.5°	298.1
55°	214.6
57.5°	155.0
60°	119.2
62.5°	83.5
65°	59.6
67.5°	47.7
70°	35.8
72.5°	23.8
75°	11.9
77.5°	11.9
80°	11.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)