

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: P1500385

Luminaire Tested: LD4C15D010 EU4159050 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500385
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: LD4C15D010 EU4159050 4LBMH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBM TRIM FINISH
Light Source: -
Ballast/Driver: -

Summary

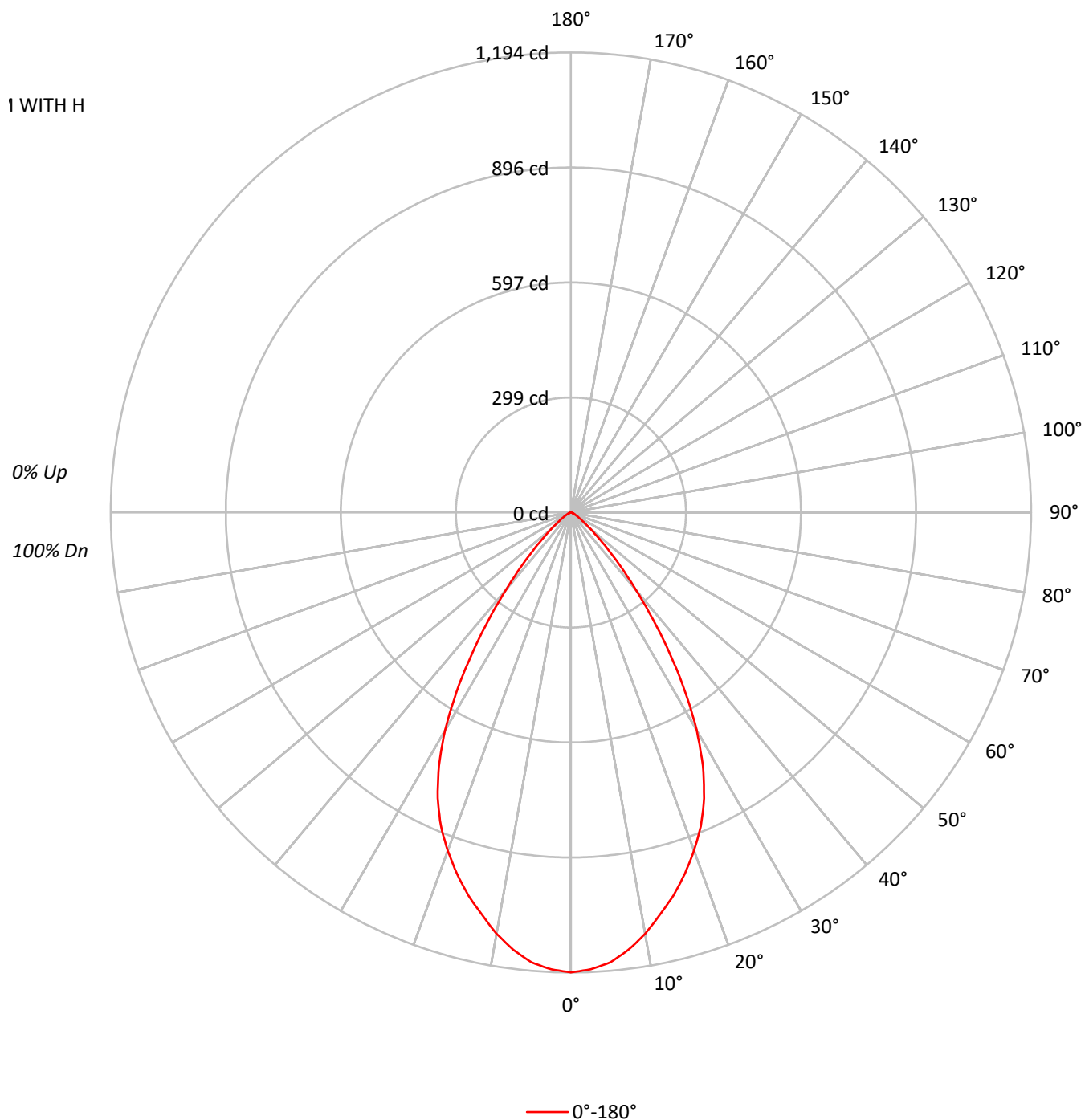
Lumens per Lamp: N/A
Luminaire Lumens: 1204.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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: P1500385

CATALOG NUMBER: LD4C15D010 EU4159050 4LBMH

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°	146662
5°	144534
10°	138496
15°	130812
20°	122109
25°	110842
30°	92549
35°	67039
40°	41970
45°	23994
50°	12500
55°	7004
60°	4472
65°	2645
70°	1976
75°	854
80°	1273
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23994 cd/sqm

TEST NUMBER: P1500385

CATALOG NUMBER: LD4C15D010 EU4159050 4LBMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	9.1
10°-20°	288.2	23.9
20°-30°	370.4	30.8
30°-40°	278.7	23.1
40°-50°	111.9	9.3
50°-60°	31.8	2.6
60°-70°	10.1	0.8
70°-80°	2.9	0.2
80°-90°	0.2	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°	768.4	63.8
0°-40°	1047.1	87.0
0°-60°	1190.8	98.9
0°-90°	1204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1194	
5°	1172	110
15°	1028	288
25°	818	370
35°	447	279
45°	138	112
55°	33	32
65°	9	10
75°	2	3
85°	0	0
90°	0	

TEST NUMBER: P1500385

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1193.8
2.5°	1186.6
5°	1172.0
7.5°	1144.8
10°	1110.2
12.5°	1068.5
15°	1028.5
17.5°	983.1
20°	934.0
22.5°	881.3
25°	817.7
27.5°	741.4
30°	652.4
32.5°	552.4
35°	447.0
37.5°	348.9
40°	261.7
42.5°	192.6
45°	138.1
47.5°	94.5
50°	65.4
52.5°	45.4
55°	32.7
57.5°	23.6
60°	18.2
62.5°	12.7
65°	9.1
67.5°	7.3
70°	5.5
72.5°	3.6
75°	1.8
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)