

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: P1500371

Luminaire Tested: LD4C100D010 EU41009027 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500371
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 EU41009027 4LBMH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBM TRII FINISH
Light Source: -
Ballast/Driver: -

Summary

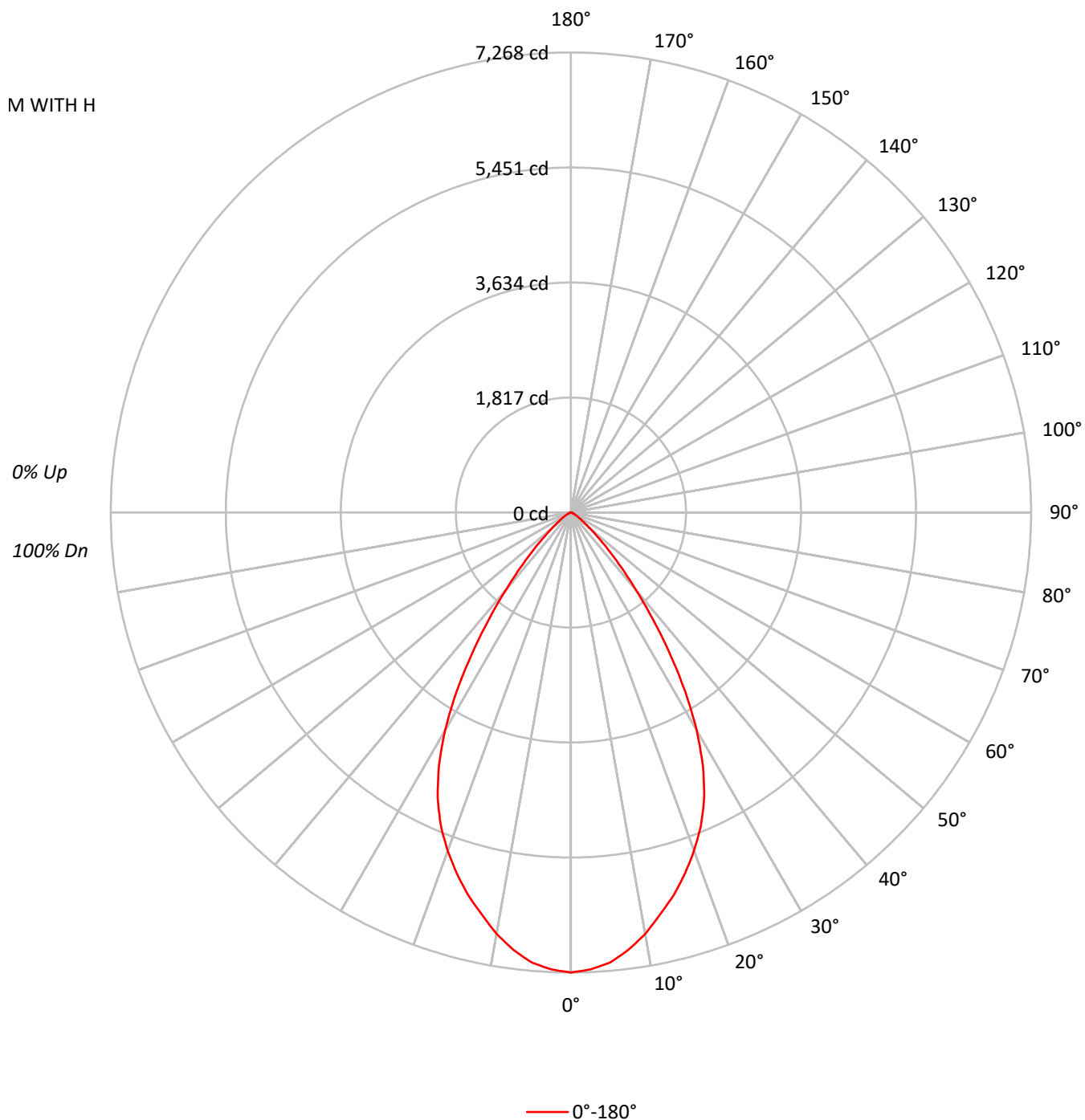
Lumens per Lamp: N/A
Luminaire Lumens: 7330.0 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	892911
5°	879945
10°	843189
15°	796383
20°	743376
25°	674814
30°	563407
35°	408161
40°	255508
45°	146047
50°	76145
55°	42666
60°	27200
65°	16075
70°	11925
75°	5269
80°	7853
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 146047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.8	9.1
10°-20°	1754.5	23.9
20°-30°	2254.8	30.8
30°-40°	1696.5	23.1
40°-50°	681.4	9.3
50°-60°	193.7	2.6
60°-70°	61.3	0.8
70°-80°	17.5	0.2
80°-90°	1.5	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°	4678.1	63.8
0°-40°	6374.6	87.0
0°-60°	7249.7	98.9
0°-90°	7330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7330.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7268	
5°	7135	669
15°	6262	1755
25°	4978	2255
35°	2722	1696
45°	841	681
55°	199	194
65°	55	61
75°	11	17
85°	0	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7268.1
2.5°	7223.9
5°	7135.3
7.5°	6969.3
10°	6759.1
12.5°	6505.0
15°	6261.5
17.5°	5984.9
20°	5686.0
22.5°	5365.6
25°	4978.2
27.5°	4513.4
30°	3971.6
32.5°	3362.9
35°	2721.5
37.5°	2123.9
40°	1593.2
42.5°	1172.6
45°	840.6
47.5°	575.5
50°	398.4
52.5°	276.7
55°	199.2
57.5°	143.9
60°	110.7
62.5°	77.5
65°	55.3
67.5°	44.3
70°	33.2
72.5°	22.1
75°	11.1
77.5°	11.1
80°	11.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)