

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: P1500386

Luminaire Tested: LD4C20D010 EU4209027 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500386
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: LD4C20D010 EU4209027 4LBMH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBM TRIM FINISH
Light Source: -
Ballast/Driver: -

Summary

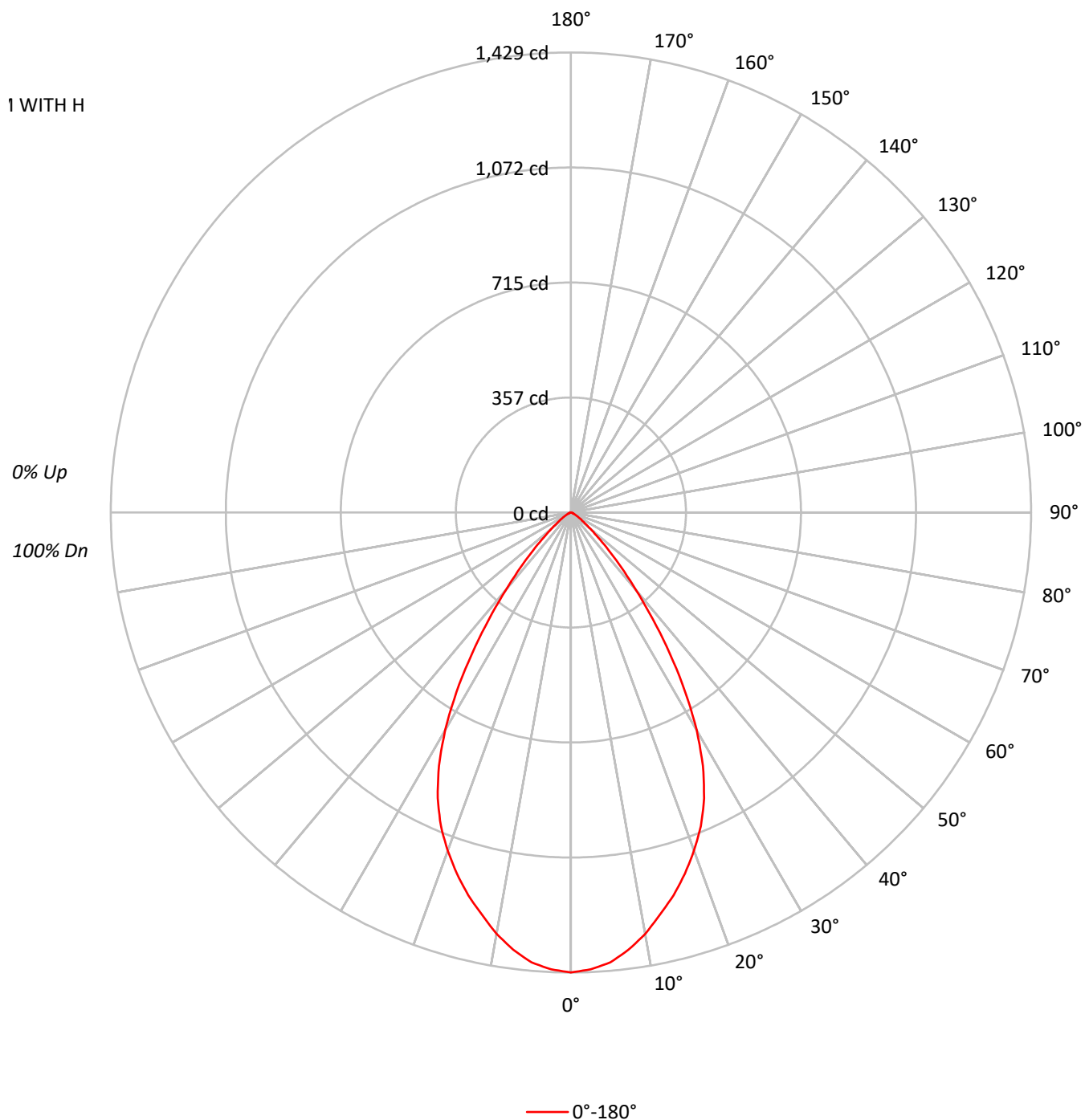
Lumens per Lamp: N/A
Luminaire Lumens: 1441.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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

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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°	175533
5°	172985
10°	165766
15°	156568
20°	146139
25°	132667
30°	110763
35°	80237
40°	50229
45°	28719
50°	14965
55°	8396
60°	5356
65°	3169
70°	2335
75°	1044
80°	1556
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	9.1
10°-20°	344.9	23.9
20°-30°	443.3	30.8
30°-40°	333.5	23.1
40°-50°	133.9	9.3
50°-60°	38.1	2.6
60°-70°	12.1	0.8
70°-80°	3.5	0.2
80°-90°	0.3	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°	919.7	63.8
0°-40°	1253.2	87.0
0°-60°	1425.2	98.9
0°-90°	1441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1429	
5°	1403	131
15°	1231	345
25°	979	443
35°	535	334
45°	165	134
55°	39	38
65°	11	12
75°	2	3
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1428.8
2.5°	1420.1
5°	1402.7
7.5°	1370.1
10°	1328.8
12.5°	1278.8
15°	1231.0
17.5°	1176.6
20°	1117.8
22.5°	1054.8
25°	978.7
27.5°	887.3
30°	780.8
32.5°	661.1
35°	535.0
37.5°	417.5
40°	313.2
42.5°	230.5
45°	165.3
47.5°	113.1
50°	78.3
52.5°	54.4
55°	39.2
57.5°	28.3
60°	21.8
62.5°	15.2
65°	10.9
67.5°	8.7
70°	6.5
72.5°	4.4
75°	2.2
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)