

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: P1500388

Luminaire Tested: LD4C20D010 EU4209035 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500388
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 EU4209035 4LBMH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LBM TRIM FINISH
Light Source: -
Ballast/Driver: -

Summary

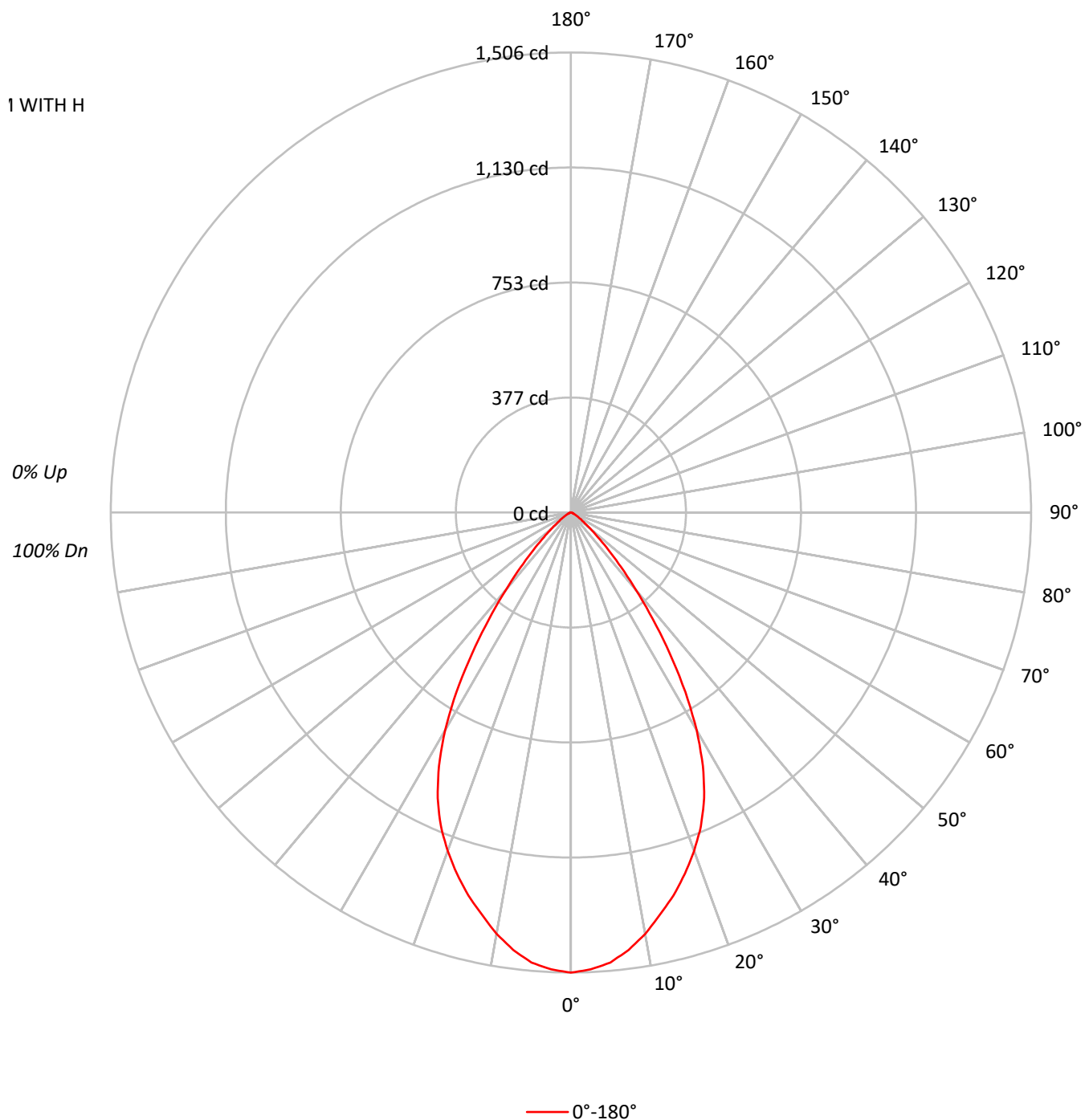
Lumens per Lamp: N/A
Luminaire Lumens: 1519.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	185042
5°	182357
10°	174735
15°	165038
20°	154049
25°	139837
30°	116750
35°	84587
40°	52955
45°	30266
50°	15787
55°	8846
60°	5627
65°	3343
70°	2478
75°	1092
80°	1627
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30266 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	9.1
10°-20°	363.6	23.9
20°-30°	467.3	30.8
30°-40°	351.6	23.1
40°-50°	141.2	9.3
50°-60°	40.1	2.6
60°-70°	12.7	0.8
70°-80°	3.6	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°	969.4	63.8
0°-40°	1321.0	87.0
0°-60°	1502.3	98.9
0°-90°	1519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1519.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1506	
5°	1479	139
15°	1298	364
25°	1032	467
35°	564	352
45°	174	141
55°	41	40
65°	12	13
75°	2	4
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1506.2
2.5°	1497.0
5°	1478.7
7.5°	1444.3
10°	1400.7
12.5°	1348.0
15°	1297.6
17.5°	1240.2
20°	1178.3
22.5°	1111.9
25°	1031.6
27.5°	935.3
30°	823.0
32.5°	696.9
35°	564.0
37.5°	440.1
40°	330.2
42.5°	243.0
45°	174.2
47.5°	119.3
50°	82.6
52.5°	57.3
55°	41.3
57.5°	29.8
60°	22.9
62.5°	16.1
65°	11.5
67.5°	9.2
70°	6.9
72.5°	4.6
75°	2.3
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)