

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: P1500414

Luminaire Tested: LD4C45D010 EU4459040 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500414
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: LD4C45D010 EU4459040 4LBMH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBM TRIM FINISH
Light Source: -
Ballast/Driver: -

Summary

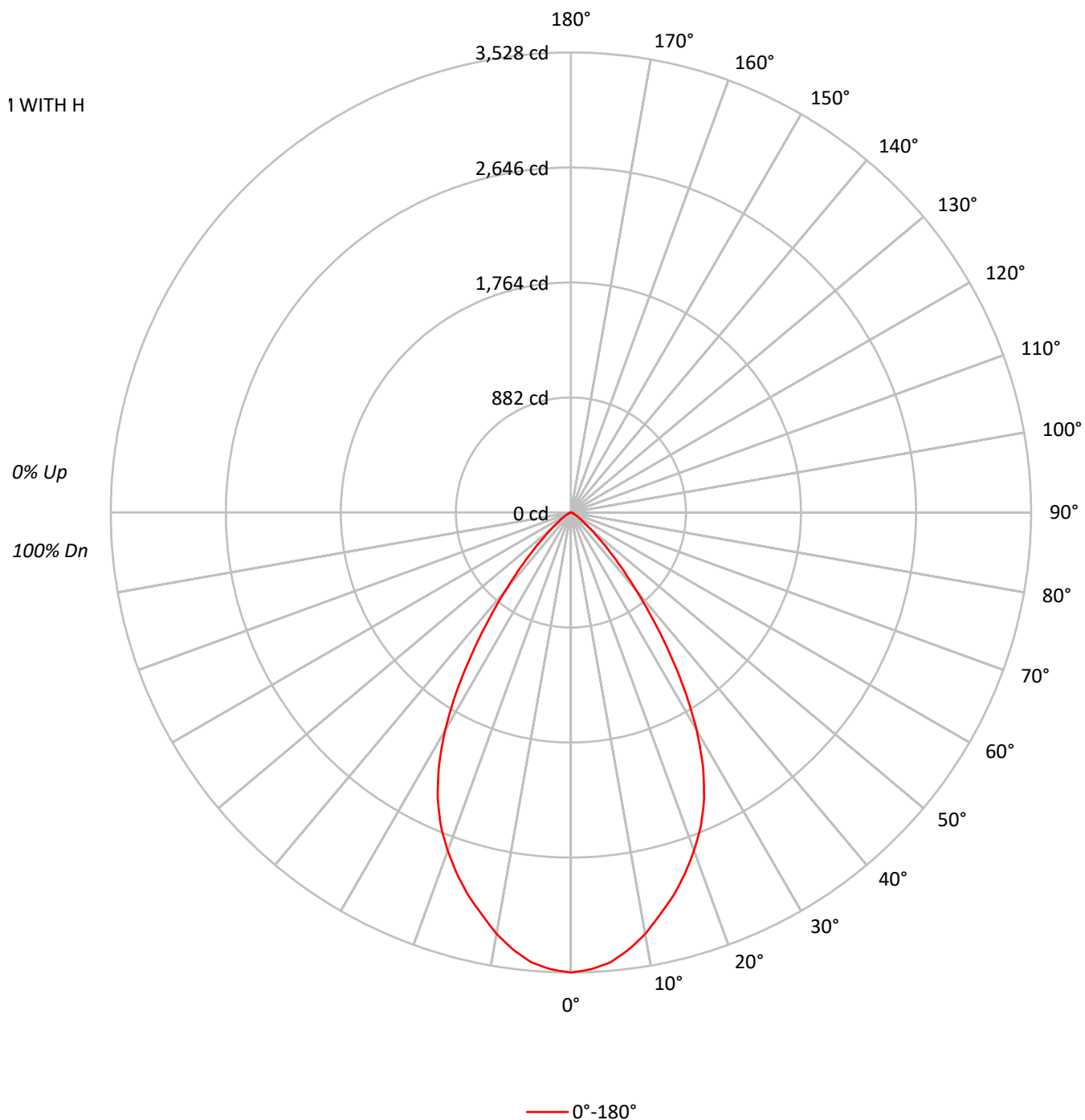
Lumens per Lamp: N/A
Luminaire Lumens: 3558.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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°	433427
5°	427128
10°	409288
15°	386573
20°	360837
25°	327552
30°	273476
35°	198119
40°	124017
45°	70886
50°	36964
55°	20712
60°	13194
65°	7820
70°	5783
75°	2563
80°	3820
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	9.1
10°-20°	851.7	23.9
20°-30°	1094.5	30.8
30°-40°	823.5	23.1
40°-50°	330.7	9.3
50°-60°	94.0	2.6
60°-70°	29.8	0.8
70°-80°	8.5	0.2
80°-90°	0.7	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°	2270.8	63.8
0°-40°	3094.2	87.0
0°-60°	3519.0	98.9
0°-90°	3558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3558.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3528	
5°	3464	325
15°	3039	852
25°	2416	1095
35°	1321	823
45°	408	331
55°	97	94
65°	27	30
75°	5	8
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3528.0
2.5°	3506.5
5°	3463.5
7.5°	3382.9
10°	3280.9
12.5°	3157.5
15°	3039.4
17.5°	2905.1
20°	2760.0
22.5°	2604.5
25°	2416.4
27.5°	2190.8
30°	1927.8
32.5°	1632.4
35°	1321.0
37.5°	1030.9
40°	773.3
42.5°	569.2
45°	408.0
47.5°	279.3
50°	193.4
52.5°	134.3
55°	96.7
57.5°	69.8
60°	53.7
62.5°	37.6
65°	26.9
67.5°	21.5
70°	16.1
72.5°	10.7
75°	5.4
77.5°	5.4
80°	5.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)