

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: P1500415

Luminaire Tested: LD4C45D010 EU4459050 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500415
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 EU4459050 4LBMH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBM TRIM FINISH
Light Source: -
Ballast/Driver: -

Summary

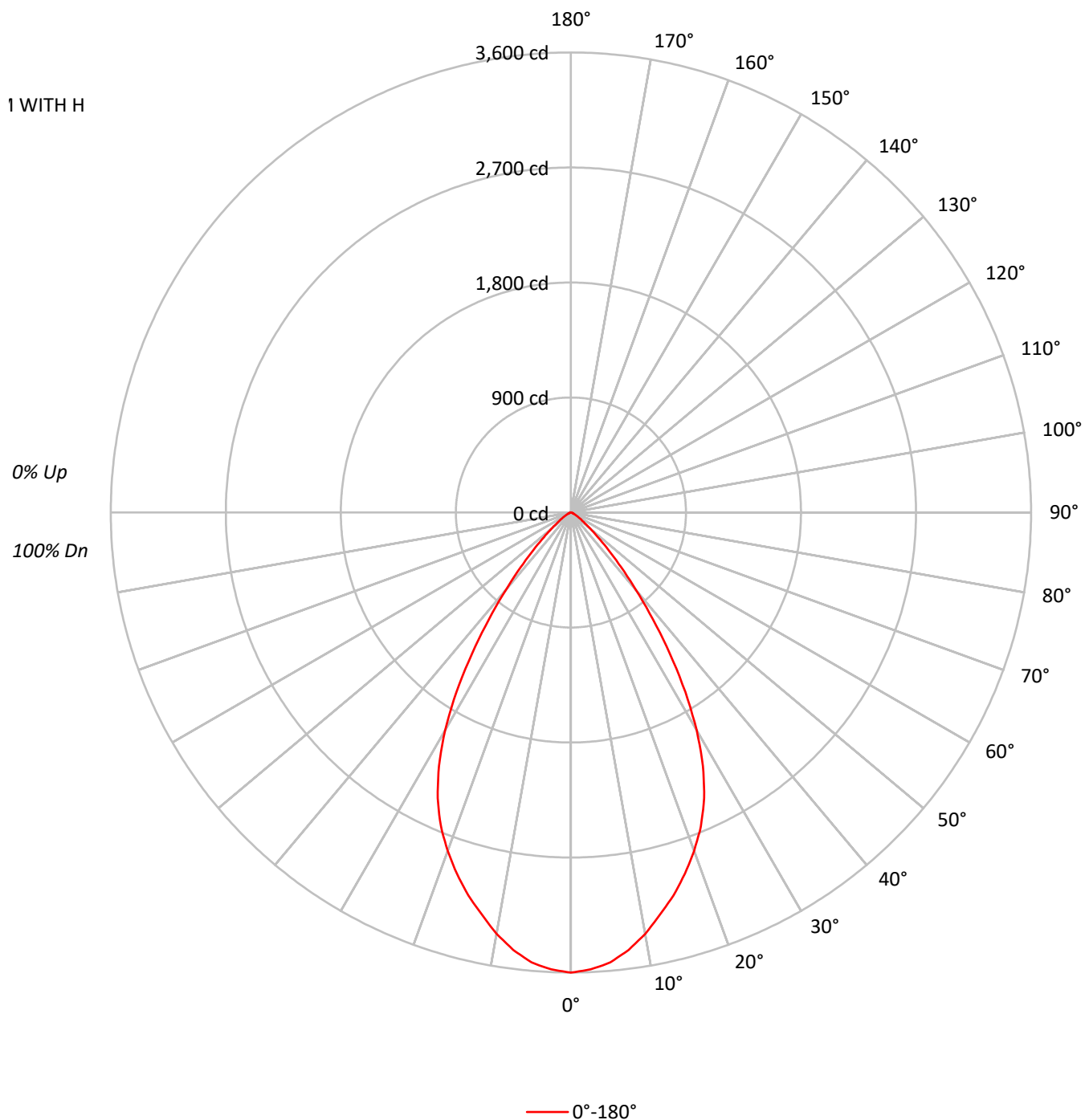
Lumens per Lamp: N/A
Luminaire Lumens: 3631.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	442322
5°	435897
10°	417684
15°	394497
20°	368236
25°	334276
30°	279093
35°	202183
40°	126567
45°	72346
50°	37728
55°	21140
60°	13465
65°	7965
70°	5891
75°	2611
80°	3891
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 72346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.3	9.1
10°-20°	869.1	23.9
20°-30°	1117.0	30.8
30°-40°	840.4	23.1
40°-50°	337.5	9.3
50°-60°	96.0	2.6
60°-70°	30.4	0.8
70°-80°	8.7	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°	2317.4	63.8
0°-40°	3157.7	87.0
0°-60°	3591.3	98.9
0°-90°	3631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3631.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3600	
5°	3535	331
15°	3102	869
25°	2466	1117
35°	1348	840
45°	416	338
55°	99	96
65°	27	30
75°	6	9
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3600.4
2.5°	3578.4
5°	3534.6
7.5°	3452.3
10°	3348.2
12.5°	3222.3
15°	3101.7
17.5°	2964.7
20°	2816.6
22.5°	2657.9
25°	2466.0
27.5°	2235.8
30°	1967.4
32.5°	1665.9
35°	1348.1
37.5°	1052.1
40°	789.2
42.5°	580.9
45°	416.4
47.5°	285.1
50°	197.4
52.5°	137.1
55°	98.7
57.5°	71.3
60°	54.8
62.5°	38.4
65°	27.4
67.5°	21.9
70°	16.4
72.5°	11.0
75°	5.5
77.5°	5.5
80°	5.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)