

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: P1500440

Luminaire Tested: LD4C70D010 EU4709050 4LBMH

Issue Date: 2/8/2022

Test Information

Test Method: LM-79-2019
Report Number: P1500440
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: LD4C70D010 EU4709050 4LBMH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBM TRIM FINISH
Light Source: -
Ballast/Driver: -

Summary

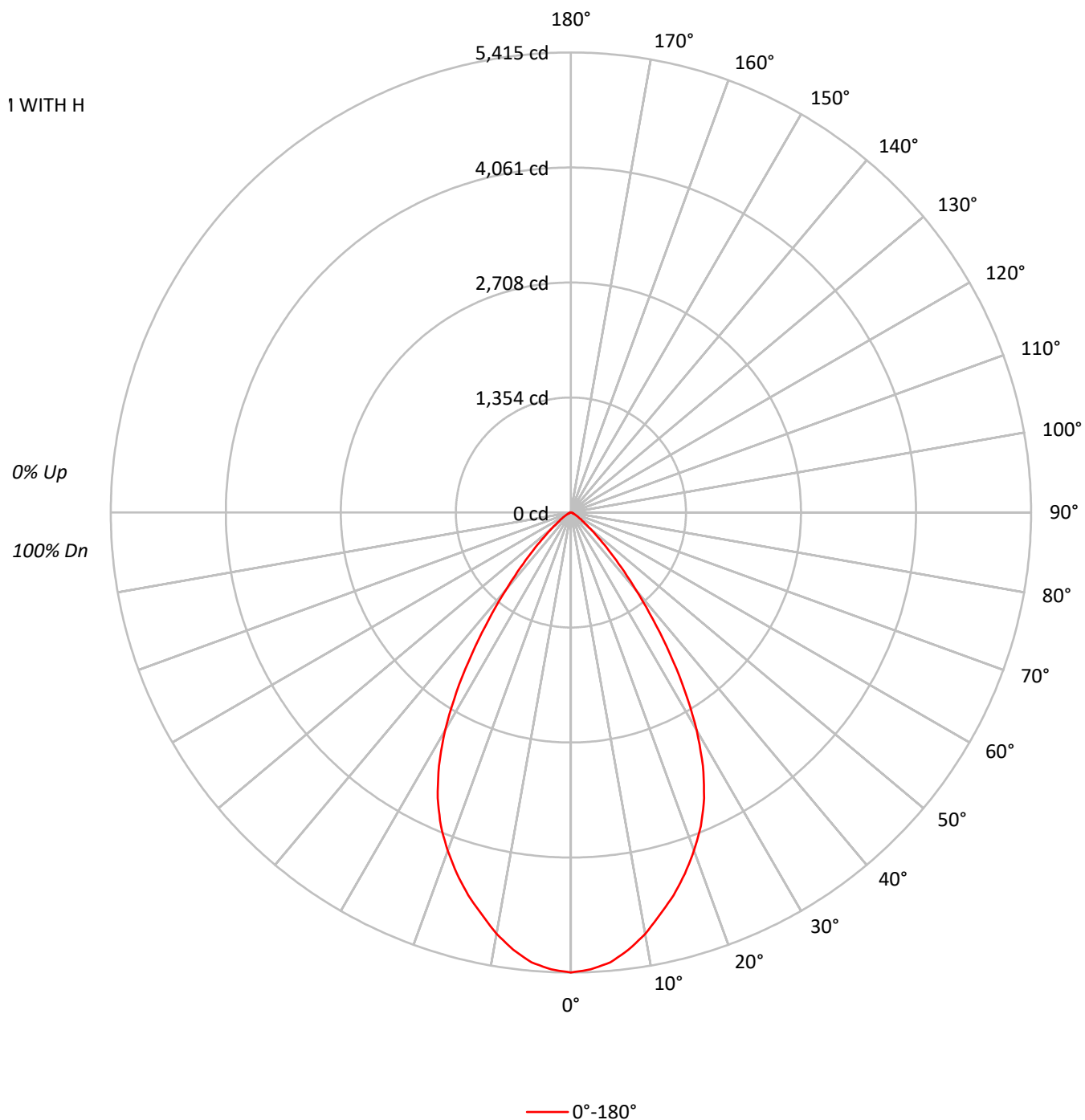
Lumens per Lamp: N/A
Luminaire Lumens: 5460.9 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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°	665239
5°	655584
10°	628184
15°	593329
20°	553832
25°	502756
30°	419747
35°	304092
40°	190348
45°	108814
50°	56726
55°	31786
60°	20271
65°	11977
70°	8872
75°	3892
80°	5801
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 108814 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.3	9.1
10°-20°	1307.2	23.9
20°-30°	1679.9	30.8
30°-40°	1263.9	23.1
40°-50°	507.6	9.3
50°-60°	144.3	2.6
60°-70°	45.7	0.8
70°-80°	13.0	0.2
80°-90°	1.1	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°	3485.3	63.8
0°-40°	4749.2	87.0
0°-60°	5401.1	98.9
0°-90°	5460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5460.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5415	
5°	5316	498
15°	4665	1307
25°	3709	1680
35°	2028	1264
45°	626	508
55°	148	144
65°	41	46
75°	8	13
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5414.9
2.5°	5381.9
5°	5316.0
7.5°	5192.3
10°	5035.6
12.5°	4846.4
15°	4665.0
17.5°	4458.8
20°	4236.2
22.5°	3997.5
25°	3708.9
27.5°	3362.6
30°	2958.9
32.5°	2505.4
35°	2027.6
37.5°	1582.3
40°	1186.9
42.5°	873.6
45°	626.3
47.5°	428.8
50°	296.8
52.5°	206.1
55°	148.4
57.5°	107.2
60°	82.5
62.5°	57.7
65°	41.2
67.5°	33.0
70°	24.7
72.5°	16.5
75°	8.2
77.5°	8.2
80°	8.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)