

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P840065

Luminaire Tested: **LDS4C45D010 EU4459030 4LBSWMH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C45D010 EU4459030 4LBSWMH  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBS TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

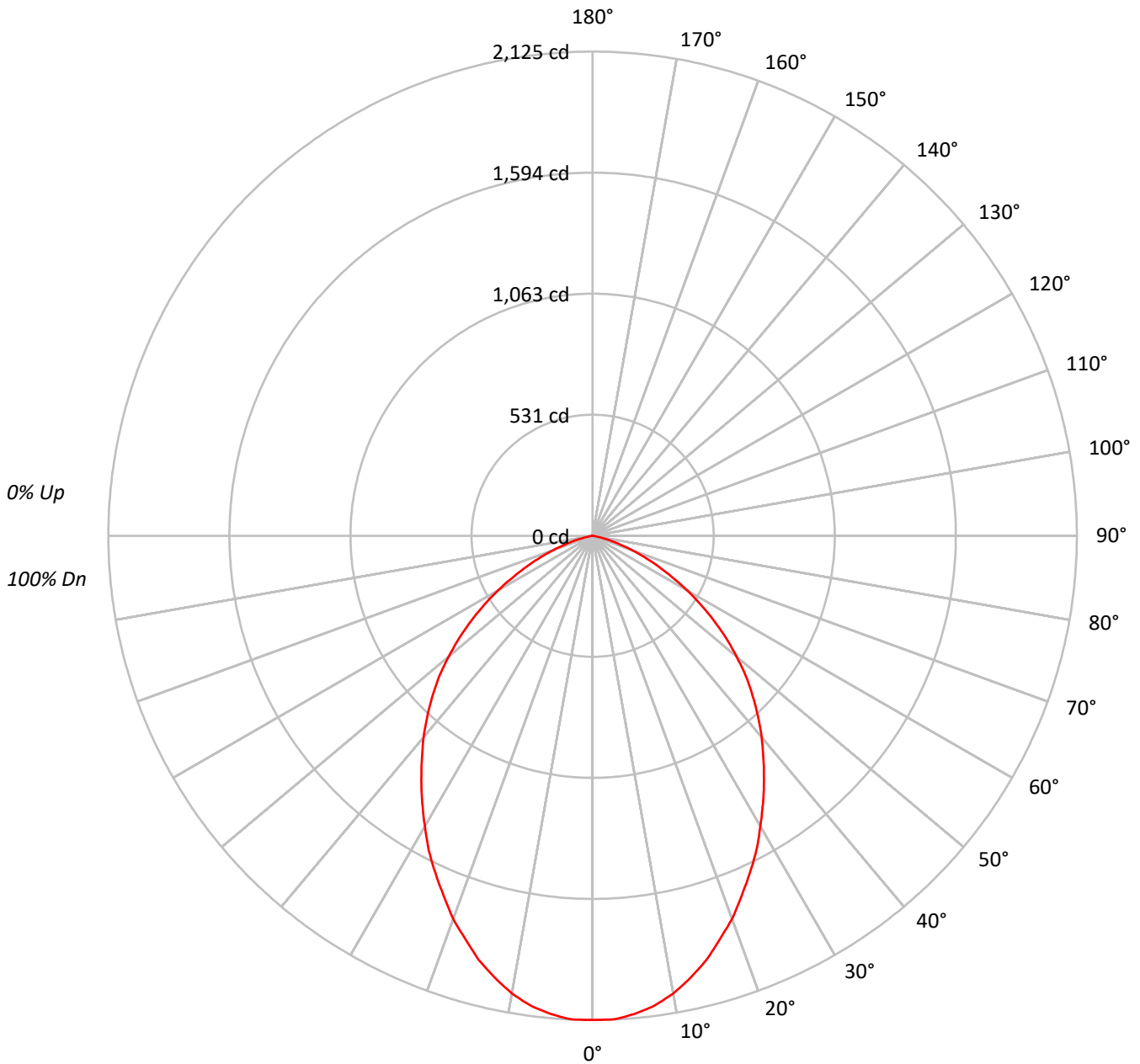
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4063.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: 25 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	261051
5°	259841
10°	254487
15°	245230
20°	233942
25°	221332
30°	208788
35°	196574
40°	185087
45°	172542
50°	157335
55°	138944
60°	117620
65°	92325
70°	65913
75°	36122
80°	6367
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.0	4.9
10°-20°	541.0	13.3
20°-30°	751.3	18.5
30°-40°	819.8	20.2
40°-50°	764.8	18.8
50°-60°	580.5	14.3
60°-70°	317.9	7.8
70°-80°	87.5	2.2
80°-90°	1.2	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°	1491.3	36.7
0°-40°	2311.2	56.9
0°-60°	3656.4	90.0
0°-90°	4063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2125	
5°	2107	199
15°	1928	541
25°	1633	751
35°	1311	820
45°	993	765
55°	649	580
65°	318	318
75°	76	88
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2124.9
2.5°	2124.9
5°	2107.0
7.5°	2080.3
10°	2040.0
12.5°	1986.3
15°	1928.1
17.5°	1856.6
20°	1789.4
22.5°	1708.9
25°	1632.8
27.5°	1556.8
30°	1471.8
32.5°	1391.3
35°	1310.7
37.5°	1230.2
40°	1154.1
42.5°	1073.6
45°	993.1
47.5°	912.6
50°	823.2
52.5°	738.1
55°	648.7
57.5°	563.6
60°	478.7
62.5°	393.7
65°	317.6
67.5°	246.0
70°	183.5
72.5°	125.3
75°	76.1
77.5°	35.8
80°	9.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)