

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: P840427

Luminaire Tested: **LDS4C65D010 EU4659050 4LBPSSQMMS**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P840427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C65D010 EU4659050 4LBSSQMMS  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

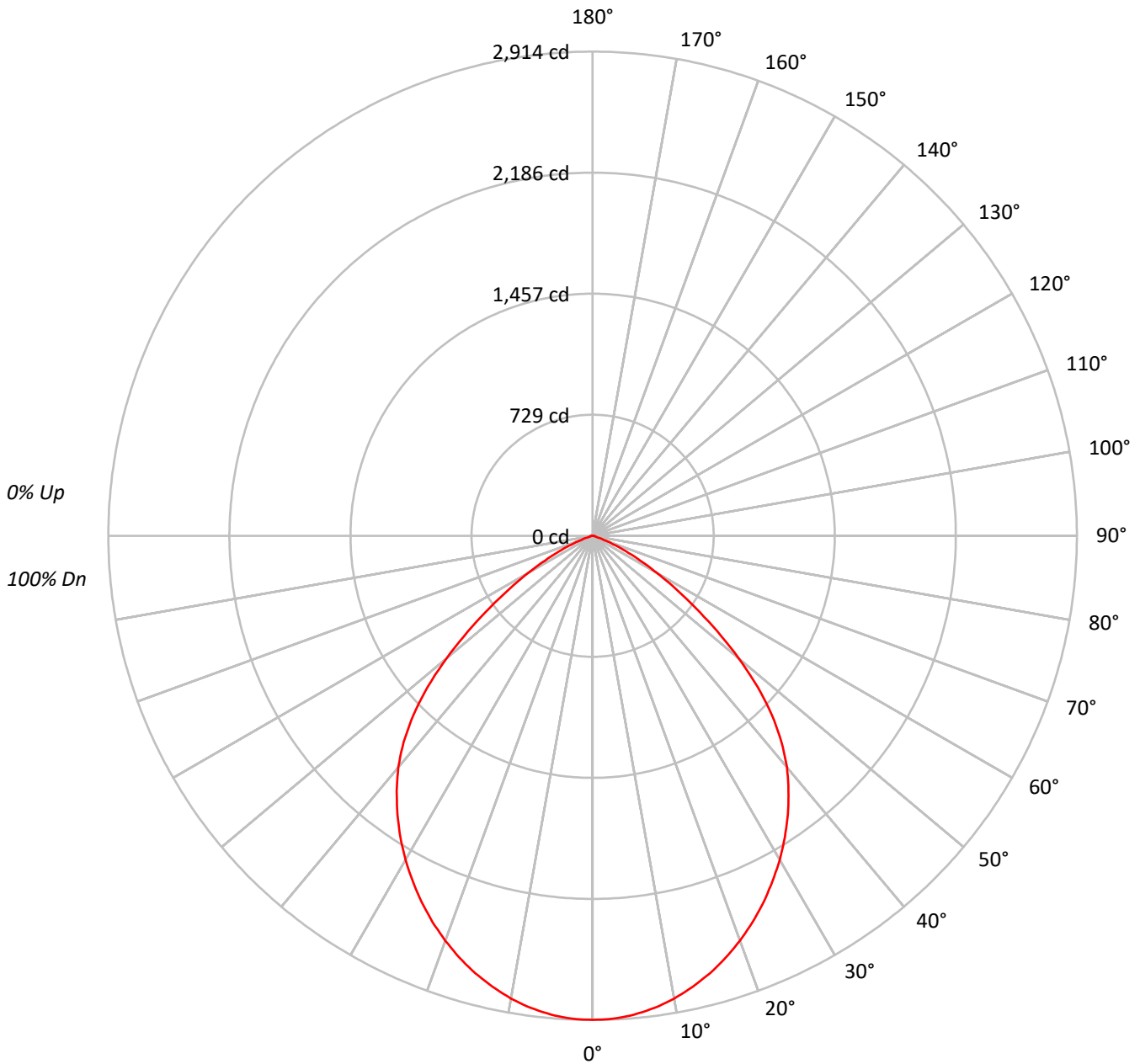
Lumens per Lamp: N/A  
Luminaire Lumens: 5549.0 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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			100	
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70				70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62				62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55				55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33				33

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

	0°
0°	281140
5°	280180
10°	277100
15°	272327
20°	266232
25°	259111
30°	250953
35°	241283
40°	229116
45°	208314
50°	171981
55°	126638
60°	85952
65°	50320
70°	19889
75°	4474
80°	5834
85°	9964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.1	4.9
10°-20°	767.6	13.8
20°-30°	1119.7	20.2
30°-40°	1278.1	23.0
40°-50°	1161.9	20.9
50°-60°	685.3	12.3
60°-70°	229.8	4.1
70°-80°	24.0	0.4
80°-90°	8.4	0.2
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°	2161.4	39.0
0°-40°	3439.6	62.0
0°-60°	5286.8	95.3
0°-90°	5549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5549.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2914	
5°	2893	274
15°	2726	768
25°	2434	1120
35°	2048	1278
45°	1527	1162
55°	753	685
65°	220	230
75°	12	24
85°	9	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2913.7
2.5°	2909.2
5°	2892.7
7.5°	2865.7
10°	2828.2
12.5°	2780.2
15°	2726.2
17.5°	2663.2
20°	2592.8
22.5°	2516.3
25°	2433.8
27.5°	2343.8
30°	2252.4
32.5°	2151.9
35°	2048.4
37.5°	1936.0
40°	1819.0
42.5°	1682.5
45°	1526.6
47.5°	1346.6
50°	1145.7
52.5°	944.7
55°	752.8
57.5°	589.3
60°	445.4
62.5°	322.4
65°	220.4
67.5°	135.0
70°	70.5
72.5°	27.0
75°	12.0
77.5°	12.0
80°	10.5
82.5°	9.0
85°	9.0
87.5°	7.5
90°	0.0



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— 0°-180°







(END OF REPORT)