

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: P840447

Luminaire Tested: **LDS4C75D010 EU4759050 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: P840447  
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: LDS4C75D010 EU4759050 4LBSSQMMS  
Description: 4 INCH 7500 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**

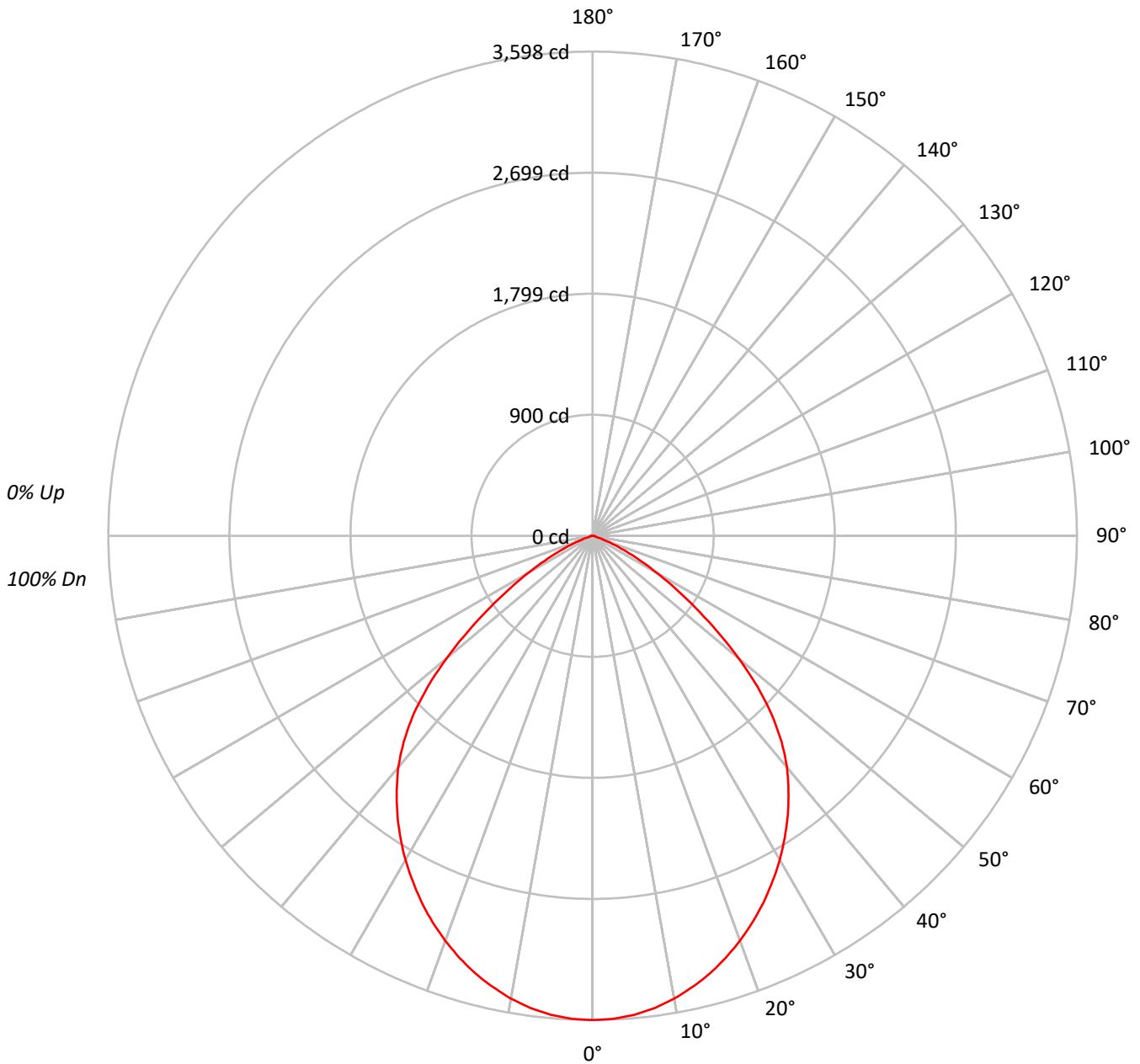
Lumens per Lamp: N/A  
Luminaire Lumens: 6853.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
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°	347206
5°	346023
10°	342215
15°	336329
20°	328796
25°	320009
30°	309925
35°	297988
40°	282950
45°	257260
50°	212391
55°	156397
60°	106138
65°	62147
70°	24544
75°	5518
80°	7224
85°	12289



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.5	4.9
10°-20°	948.1	13.8
20°-30°	1382.9	20.2
30°-40°	1578.5	23.0
40°-50°	1435.0	20.9
50°-60°	846.3	12.3
60°-70°	283.8	4.1
70°-80°	29.6	0.4
80°-90°	10.4	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°	2669.4	39.0
0°-40°	4247.9	62.0
0°-60°	6529.2	95.3
0°-90°	6853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6853.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3598	
5°	3572	338
15°	3367	948
25°	3006	1383
35°	2530	1578
45°	1885	1435
55°	930	846
65°	272	284
75°	15	30
85°	11	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3598.4
2.5°	3592.8
5°	3572.5
7.5°	3539.1
10°	3492.8
12.5°	3433.6
15°	3366.9
17.5°	3289.1
20°	3202.1
22.5°	3107.6
25°	3005.8
27.5°	2894.6
30°	2781.7
32.5°	2657.6
35°	2529.8
37.5°	2390.9
40°	2246.4
42.5°	2077.9
45°	1885.3
47.5°	1663.1
50°	1414.9
52.5°	1166.7
55°	929.7
57.5°	727.8
60°	550.0
62.5°	398.2
65°	272.2
67.5°	166.7
70°	87.0
72.5°	33.3
75°	14.8
77.5°	14.8
80°	13.0
82.5°	11.1
85°	11.1
87.5°	9.3
90°	0.0



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— 0°-180°







(END OF REPORT)