

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: P840414

Luminaire Tested: **LDS4C60D010 EU4609040 4LBPSSQMB**

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: P840414  
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: LDS4C60D010 EU4609040 4LBSSQMB  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

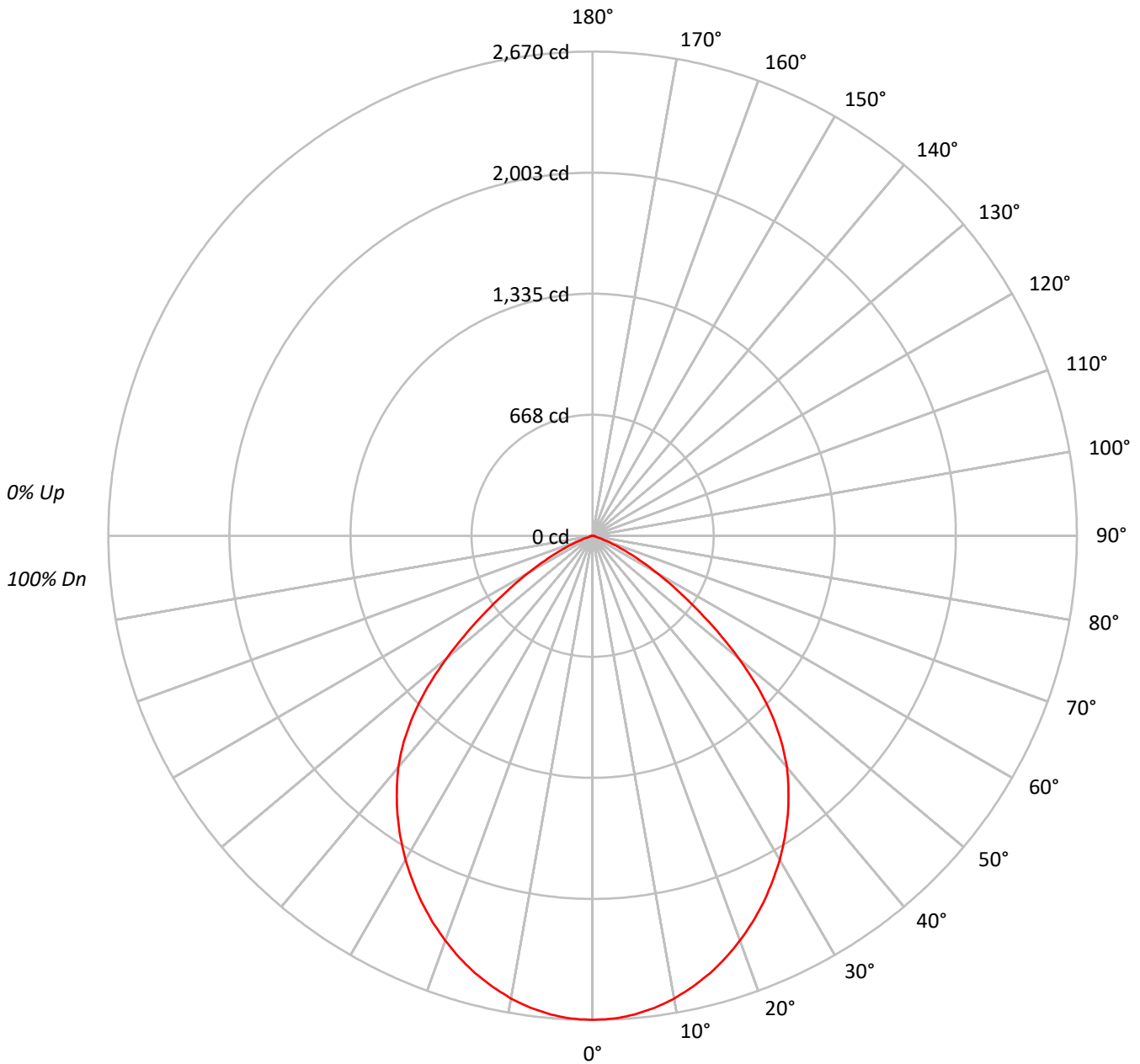
Lumens per Lamp: N/A  
Luminaire Lumens: 5084.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	257577
5°	256701
10°	253879
15°	249512
20°	243920
25°	237403
30°	229918
35°	221071
40°	209920
45°	190847
50°	157571
55°	116024
60°	78754
65°	46119
70°	18225
75°	4101
80°	5334
85°	9078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.1	4.9
10°-20°	703.3	13.8
20°-30°	1025.9	20.2
30°-40°	1171.0	23.0
40°-50°	1064.6	20.9
50°-60°	627.9	12.4
60°-70°	210.6	4.1
70°-80°	22.0	0.4
80°-90°	7.7	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°	1980.3	39.0
0°-40°	3151.3	62.0
0°-60°	4843.8	95.3
0°-90°	5084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5084.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2670	
5°	2650	251
15°	2498	703
25°	2230	1026
35°	1877	1171
45°	1399	1065
55°	690	628
65°	202	211
75°	11	22
85°	8	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2669.5
2.5°	2665.4
5°	2650.3
7.5°	2625.5
10°	2591.2
12.5°	2547.2
15°	2497.8
17.5°	2440.1
20°	2375.5
22.5°	2305.4
25°	2229.9
27.5°	2147.4
30°	2063.6
32.5°	1971.6
35°	1876.8
37.5°	1773.7
40°	1666.6
42.5°	1541.5
45°	1398.6
47.5°	1233.8
50°	1049.7
52.5°	865.6
55°	689.7
57.5°	539.9
60°	408.1
62.5°	295.4
65°	202.0
67.5°	123.7
70°	64.6
72.5°	24.7
75°	11.0
77.5°	11.0
80°	9.6
82.5°	8.2
85°	8.2
87.5°	6.9
90°	0.0



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— 0°-180°







(END OF REPORT)