

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: P799277

Luminaire Tested: **LD6C08D010 EU6089040 6LBMDSWMW**

Issue Date: 4/12/2024

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: P799277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C08D010 EU6089040 6LBMDSWMW  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

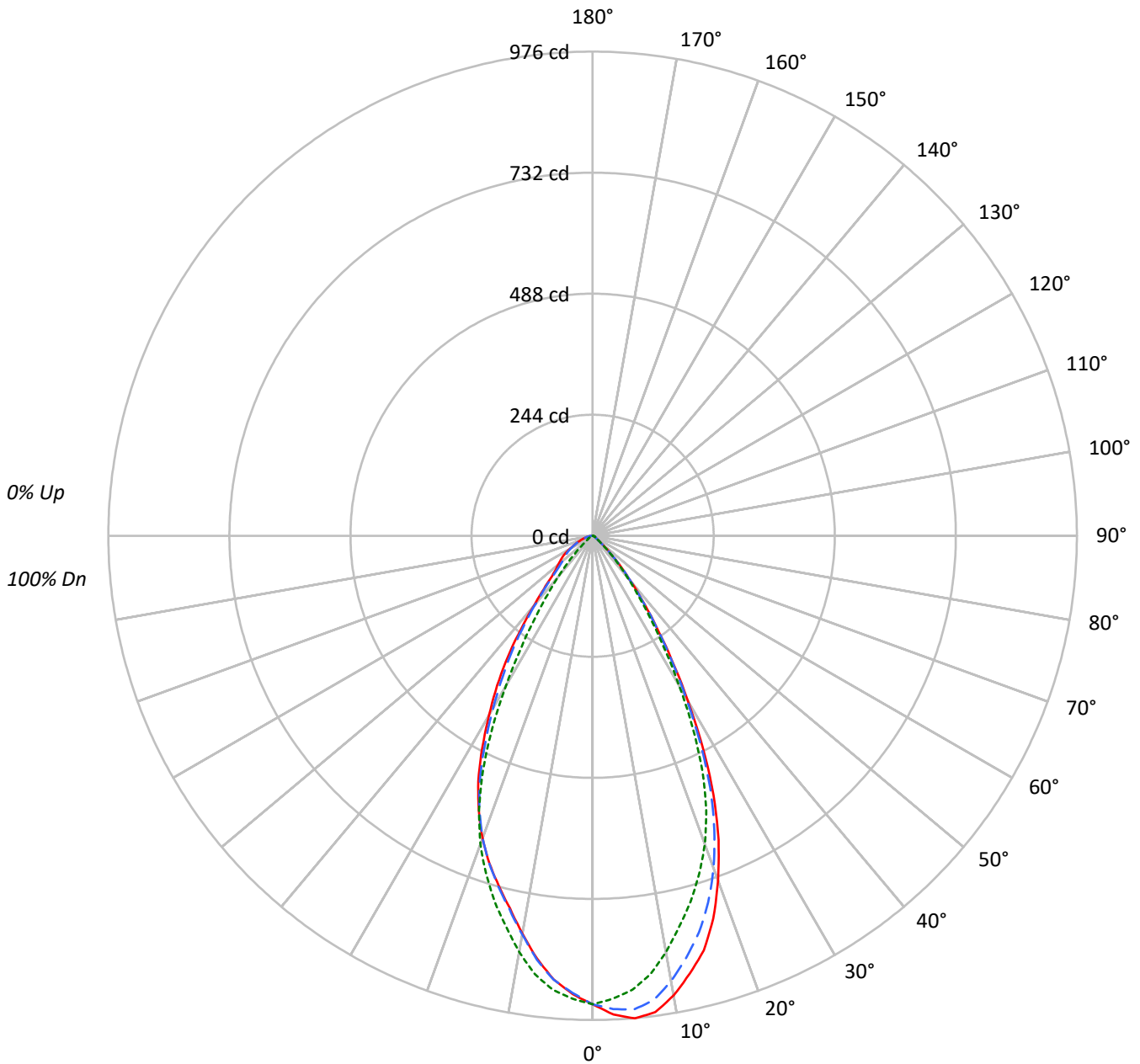
Lumens per Lamp: N/A  
Luminaire Lumens: 813.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
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									
RC	80									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

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

	0°	90°	180°
0°	51767	51767	51767
5°	53736	50550	49406
10°	52359	47416	45329
15°	49109	43326	41453
20°	43112	38573	37832
25°	34865	31689	32996
30°	24238	22073	26403
35°	14937	13525	19930
40°	8452	7578	13232
45°	4109	3915	9032
50°	1561	1561	7676
55°	860	1013	7082
60°	625	800	5811
65°	532	687	4761
70°	465	593	3911
75°	424	614	3368
80°	253	505	2431
85°	252	1006	2327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	10.6
10°-20°	217.3	26.7
20°-30°	244.6	30.1
30°-40°	151.5	18.6
40°-50°	60.3	7.4
50°-60°	27.5	3.4
60°-70°	15.8	1.9
70°-80°	7.5	0.9
80°-90°	2.2	0.3
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°	548.3	67.4
0°-40°	699.8	86.1
0°-60°	787.5	96.9
0°-90°	813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	813.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	944	944	944	944	944	
5°	976	958	919	899	898	92
15°	865	828	763	732	730	239
25°	576	561	524	537	546	259
35°	223	222	202	282	298	143
45°	53	53	50	110	116	45
55°	9	9	11	65	74	9
65°	4	4	5	36	37	4
75°	2	2	3	16	16	2
85°	0	0	2	4	4	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	944.3	944.3	944.3	944.3	944.3	944.3	944.3	944.3	944.3
2.5°	965.9	956.9	954.9	947.1	934.1	926.8	922.3	919.0	924.7
5°	976.5	966.7	958.5	942.7	918.6	905.2	898.7	893.4	897.8
7.5°	968.7	954.9	943.9	921.9	891.3	870.6	861.6	855.5	859.6
10°	940.6	923.9	911.3	885.2	851.8	827.0	816.0	810.3	814.3
12.5°	904.0	890.1	871.0	842.4	806.6	780.5	772.4	767.9	769.5
15°	865.3	849.0	827.8	799.3	763.4	737.3	732.5	729.6	730.4
17.5°	809.0	793.2	774.8	747.1	714.1	692.9	692.9	690.9	692.1
20°	739.0	730.4	712.5	689.3	661.2	642.0	648.1	646.1	648.5
22.5°	663.2	656.7	641.2	622.1	598.4	583.4	596.8	596.4	599.7
25°	576.4	571.5	561.0	544.7	523.9	514.5	536.9	536.9	545.5
27.5°	480.7	475.8	468.5	454.6	437.5	434.7	467.7	471.7	481.1
30°	382.9	379.7	375.6	363.0	348.7	354.0	399.6	406.6	417.1
32.5°	295.8	293.7	292.5	281.1	268.5	286.0	338.1	347.1	357.7
35°	223.2	218.8	222.0	213.5	202.1	224.1	281.5	289.2	297.8
37.5°	164.6	161.3	164.2	158.1	147.9	171.9	226.1	231.0	236.7
40°	118.1	115.3	117.7	114.1	105.9	128.3	177.2	182.5	184.9
42.5°	83.9	79.0	81.5	78.6	74.5	96.5	139.3	144.2	145.0
45°	53.0	51.3	53.0	51.3	50.5	71.7	110.0	114.5	116.5
47.5°	32.2	30.1	30.1	29.3	30.1	53.0	90.8	97.4	100.6
50°	18.3	17.5	17.1	16.7	18.3	41.6	78.6	86.0	90.0
52.5°	12.2	11.8	11.8	11.4	13.4	35.0	70.9	77.4	81.5
55°	9.0	8.6	8.6	8.6	10.6	30.1	65.2	70.5	74.1
57.5°	6.9	6.9	6.9	6.5	9.0	25.7	58.3	61.1	64.0
60°	5.7	5.3	5.3	5.3	7.3	22.0	50.1	51.3	53.0
62.5°	4.5	4.5	4.5	4.5	6.1	19.6	43.2	43.2	44.0
65°	4.1	3.7	3.7	3.7	5.3	17.1	36.3	35.8	36.7
67.5°	3.3	3.3	3.3	3.3	4.5	14.7	29.7	29.3	30.1
70°	2.9	2.9	2.9	2.9	3.7	12.2	24.0	23.6	24.4
72.5°	2.4	2.4	2.4	2.4	3.3	10.2	19.1	19.1	19.6
75°	2.0	2.0	2.0	2.0	2.9	7.7	15.5	15.5	15.9
77.5°	1.6	1.6	1.6	1.6	2.0	6.1	11.8	11.4	11.4
80°	0.8	1.2	1.2	1.2	1.6	4.5	8.6	7.7	7.7
82.5°	0.4	0.8	0.8	0.8	1.6	3.3	5.7	5.3	5.3
85°	0.4	0.4	0.4	1.2	1.6	2.4	3.7	3.7	3.7
87.5°	0.0	0.4	0.8	1.6	2.0	2.0	2.4	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)