

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: P856761

Luminaire Tested: **LD4C10D010 EU4109040 4LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C10D010 EU4109040 4LBMDSWWMH  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

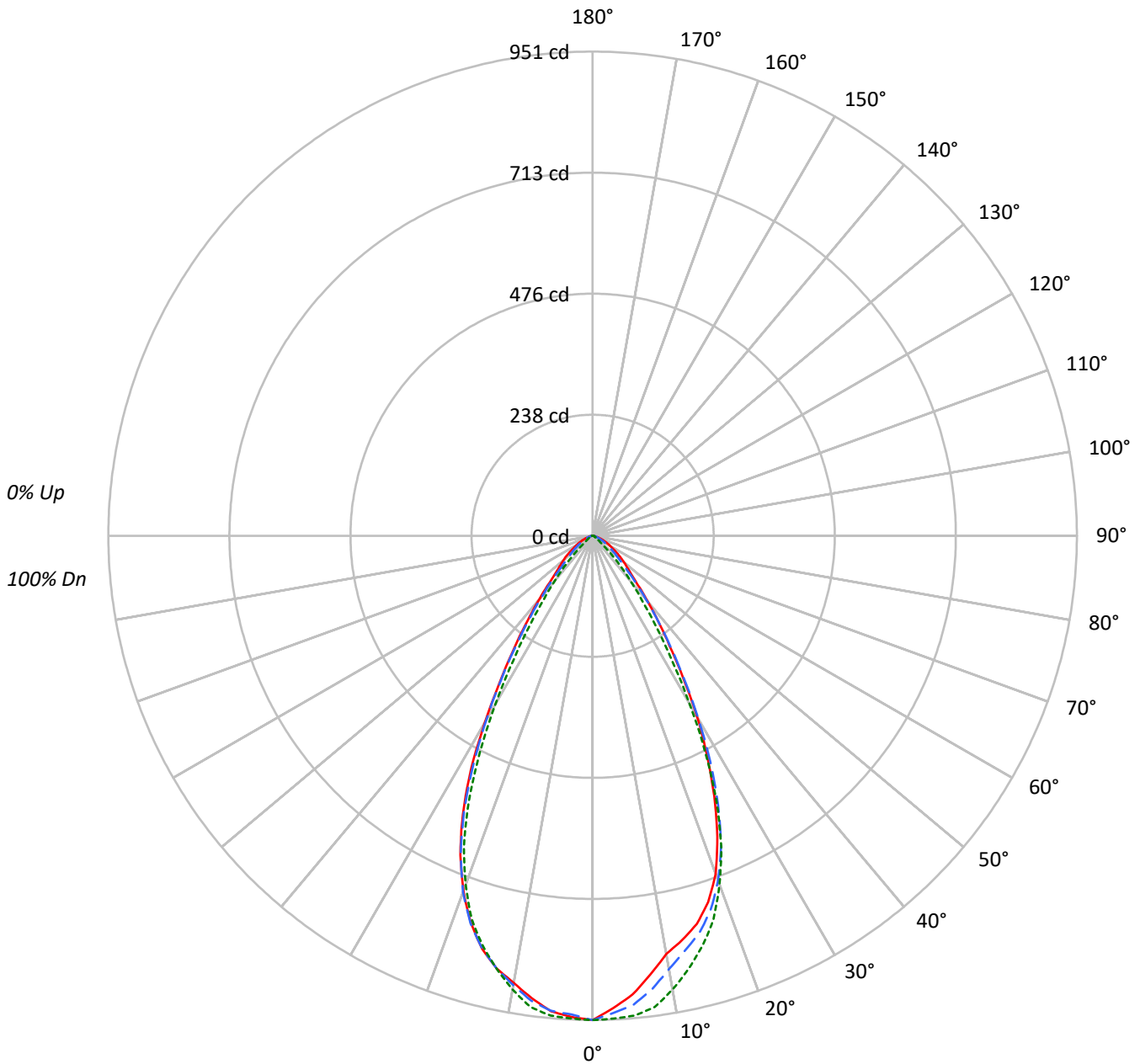
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 866.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.8  
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					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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

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

	0°	90°	180°
0°	116871	116871	116871
5°	111521	116676	115590
10°	104015	112898	111251
15°	100440	106049	106786
20°	92393	95269	96994
25°	76574	77971	81753
30°	58247	53878	59921
35°	39444	32275	39879
40°	26863	18491	26029
45°	18625	9313	17617
50°	15156	3784	14182
55°	12273	2356	11181
60°	9755	1794	8845
65°	7674	1483	6831
70°	5819	1329	5280
75°	4177	1044	3845
80°	3113	1061	2618
85°	2114	987	2114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.5	10.1
10°-20°	229.8	26.5
20°-30°	263.7	30.4
30°-40°	160.2	18.5
40°-50°	68.6	7.9
50°-60°	32.9	3.8
60°-70°	16.0	1.8
70°-80°	5.9	0.7
80°-90°	1.4	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°	580.9	67.1
0°-40°	741.1	85.6
0°-60°	842.7	97.3
0°-90°	866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	866.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	951	951	951	951	951	
5°	904	924	946	937	937	84
15°	790	808	834	839	840	220
25°	565	583	575	597	603	256
35°	263	267	215	260	266	169
45°	107	96	54	86	101	87
55°	57	43	11	38	52	52
65°	26	18	5	16	24	27
75°	9	6	2	5	8	10
85°	2	2	1	1	2	2
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°	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3
2.5°	928.5	938.8	938.1	946.9	949.1	946.9	941.0	946.9	946.1
5°	904.3	916.0	924.1	938.8	946.1	944.7	936.6	938.1	937.3
7.5°	869.0	883.7	897.7	919.7	933.7	932.9	921.2	919.0	916.0
10°	833.8	847.7	863.9	886.6	905.0	907.9	896.2	893.3	891.8
12.5°	813.2	824.2	835.2	855.1	871.2	877.1	870.5	871.2	870.5
15°	789.7	800.7	808.0	822.7	833.8	841.8	838.9	843.3	839.6
17.5°	754.4	767.6	770.6	781.6	789.7	794.8	797.8	802.2	796.3
20°	706.7	717.0	720.6	725.0	728.7	735.3	744.1	748.5	741.9
22.5°	639.8	659.7	658.9	656.7	660.4	662.6	676.6	683.9	678.8
25°	564.9	585.5	583.3	574.4	575.2	579.6	597.2	606.8	603.1
27.5°	486.3	505.4	500.3	483.4	478.9	485.6	508.3	519.4	517.1
30°	410.6	423.1	415.0	384.9	379.8	387.9	417.2	428.3	422.4
32.5°	329.1	338.6	335.0	298.2	289.4	297.5	332.0	342.3	335.7
35°	263.0	271.8	266.7	223.3	215.2	224.0	260.0	271.8	265.9
37.5°	210.8	217.4	210.8	164.5	157.2	166.0	200.5	216.0	208.6
40°	167.5	172.6	163.8	121.2	115.3	119.7	152.1	167.5	162.3
42.5°	132.2	135.9	126.3	88.9	82.3	88.2	114.6	128.6	125.6
45°	107.2	107.2	95.5	61.7	53.6	59.5	85.9	100.6	101.4
47.5°	91.8	89.6	74.9	41.1	30.9	38.9	68.3	83.7	85.9
50°	79.3	76.4	61.7	30.1	19.8	27.9	56.6	72.0	74.2
52.5°	68.3	66.1	51.4	23.5	14.0	21.3	47.7	62.4	64.6
55°	57.3	55.8	42.6	18.4	11.0	16.2	38.2	50.7	52.2
57.5°	47.0	44.8	34.5	15.4	8.8	13.2	31.6	41.9	43.3
60°	39.7	37.5	27.9	12.5	7.3	10.3	25.7	34.5	36.0
62.5°	33.1	30.9	22.8	10.3	5.9	8.8	20.6	27.9	29.4
65°	26.4	25.0	17.6	8.1	5.1	6.6	16.2	22.0	23.5
67.5°	21.3	19.8	14.0	6.6	4.4	5.1	12.5	17.6	19.1
70°	16.2	14.7	10.3	5.1	3.7	4.4	9.5	13.2	14.7
72.5°	11.8	11.0	8.1	4.4	2.9	3.7	6.6	9.5	11.0
75°	8.8	8.1	5.9	2.9	2.2	2.9	5.1	7.3	8.1
77.5°	5.9	5.9	4.4	2.2	2.2	2.2	3.7	5.1	5.1
80°	4.4	3.7	2.9	1.5	1.5	1.5	2.2	3.7	3.7
82.5°	2.9	2.2	2.2	1.5	1.5	1.5	1.5	2.2	2.2
85°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)