

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: P799783

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799783  
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: LD6C50D010 EU6509027 6LBMDSWWMH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

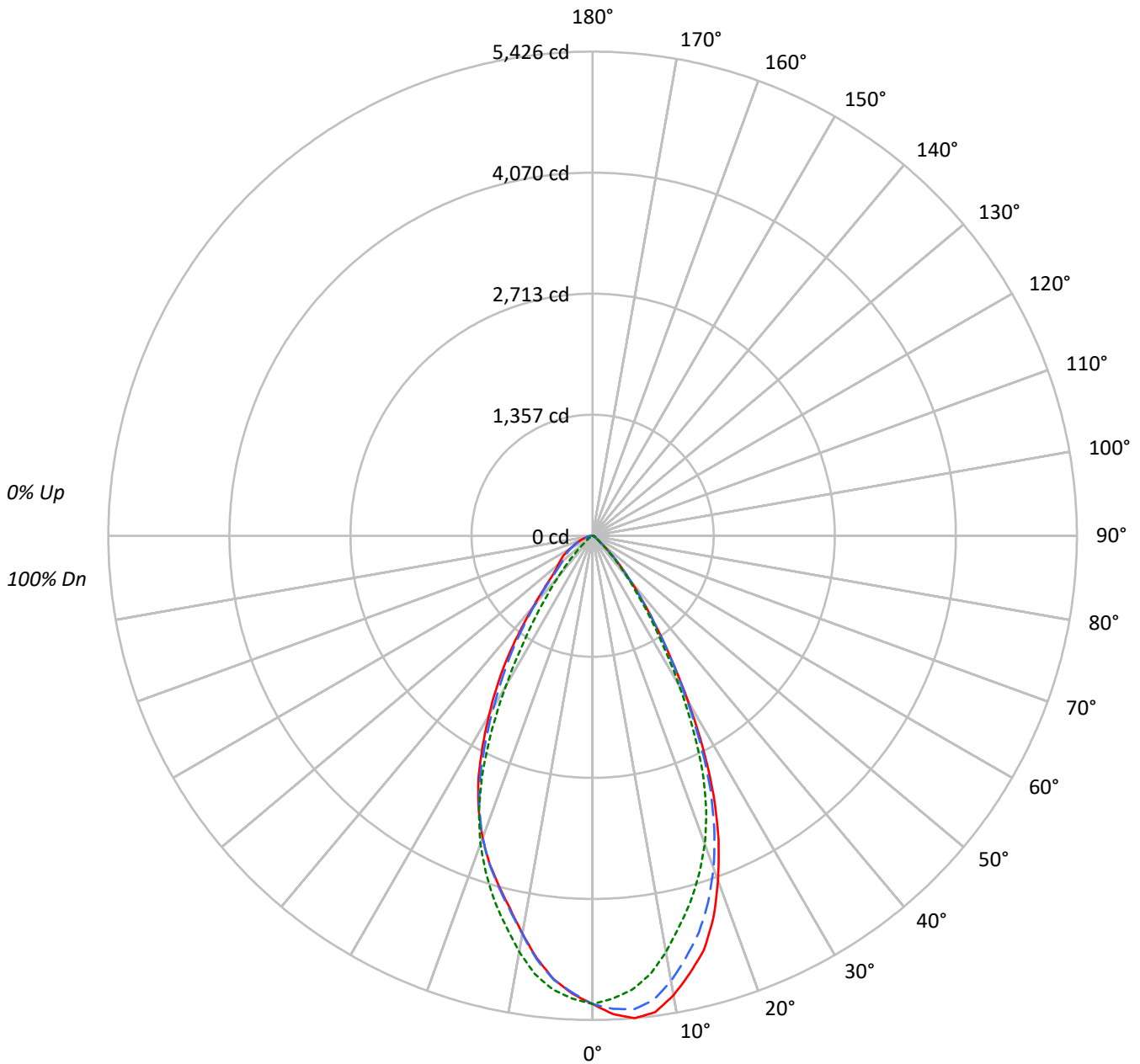
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4518.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 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): 58.4  
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	110	108	105	103	104	102	100	100	98	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	87	81	77	84	80	76	82	78	75	80	77	74	73				73				
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67				67				
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63				63				
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59				59				
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55				55				
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52				52				
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49				49				

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

	0°	90°	180°
0°	287674	287674	287674
5°	298612	280926	274570
10°	290977	263505	251910
15°	272896	240779	230370
20°	239572	214347	210252
25°	193759	176097	183355
30°	134704	122671	146744
35°	83025	75148	110751
40°	46981	42122	73552
45°	22816	21762	50199
50°	8691	8691	42668
55°	4760	5629	39377
60°	3476	4462	32267
65°	2932	3814	26423
70°	2532	3270	21766
75°	2393	3347	18703
80°	1421	2873	13575
85°	1447	5724	12831



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.4	10.6
10°-20°	1207.4	26.7
20°-30°	1359.2	30.1
30°-40°	841.7	18.6
40°-50°	335.2	7.4
50°-60°	152.6	3.4
60°-70°	87.7	1.9
70°-80°	41.7	0.9
80°-90°	12.2	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°	3047.1	67.4
0°-40°	3888.7	86.1
0°-60°	4376.5	96.9
0°-90°	4518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5248	5248	5248	5248	5248	
5°	5426	5327	5105	4994	4990	511
15°	4808	4600	4242	4070	4059	1330
25°	3203	3117	2911	2984	3031	1440
35°	1241	1234	1123	1564	1655	797
45°	294	294	281	611	648	249
55°	50	48	59	362	412	49
65°	23	20	29	202	204	22
75°	11	11	16	86	88	12
85°	2	2	9	20	20	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°	5247.6	5247.6	5247.6	5247.6	5247.6	5247.6	5247.6	5247.6	5247.6
2.5°	5367.6	5317.8	5306.5	5263.4	5191.0	5150.3	5125.4	5107.2	5138.9
5°	5426.4	5372.1	5326.8	5238.5	5105.0	5030.3	4994.0	4964.6	4989.5
7.5°	5383.4	5306.5	5245.3	5123.1	4953.3	4837.8	4788.0	4754.1	4776.7
10°	5227.2	5134.4	5064.2	4919.3	4733.7	4595.6	4534.5	4502.8	4525.4
12.5°	5023.5	4946.5	4840.1	4681.6	4482.4	4337.5	4292.3	4267.4	4276.4
15°	4808.4	4717.9	4600.1	4441.7	4242.5	4097.6	4070.4	4054.6	4059.1
17.5°	4496.0	4407.7	4305.8	4151.9	3968.5	3850.8	3850.8	3839.5	3846.3
20°	4106.6	4059.1	3959.5	3830.4	3674.2	3567.8	3601.8	3590.5	3604.0
22.5°	3685.5	3649.3	3563.3	3456.9	3325.6	3241.8	3316.5	3314.3	3332.4
25°	3203.3	3176.2	3117.3	3026.8	2911.3	2859.2	2983.8	2983.8	3031.3
27.5°	2671.3	2644.2	2603.4	2526.5	2431.4	2415.5	2598.9	2621.5	2673.6
30°	2128.0	2109.9	2087.3	2017.1	1937.9	1967.3	2220.8	2259.3	2318.2
32.5°	1643.6	1632.2	1625.4	1562.1	1491.9	1589.2	1879.0	1928.8	1987.7
35°	1240.6	1215.7	1233.8	1186.3	1122.9	1245.1	1564.3	1607.3	1654.9
37.5°	914.6	896.5	912.3	878.4	821.8	955.3	1256.4	1283.6	1315.3
40°	656.5	640.7	654.3	633.9	588.6	713.1	984.8	1014.2	1027.8
42.5°	466.4	439.2	452.8	436.9	414.3	536.5	774.2	801.4	805.9
45°	294.3	285.2	294.3	285.2	280.7	398.4	611.2	636.1	647.5
47.5°	178.8	167.5	167.5	163.0	167.5	294.3	504.8	541.1	559.2
50°	101.9	97.3	95.1	92.8	101.9	230.9	436.9	477.7	500.3
52.5°	67.9	65.7	65.7	63.4	74.7	194.7	393.9	430.1	452.8
55°	49.8	47.5	47.5	47.5	58.9	167.5	362.2	391.6	412.0
57.5°	38.5	38.5	38.5	36.2	49.8	142.6	323.7	339.6	355.4
60°	31.7	29.4	29.4	29.4	40.7	122.2	278.5	285.2	294.3
62.5°	24.9	24.9	24.9	24.9	34.0	108.7	240.0	240.0	244.5
65°	22.6	20.4	20.4	20.4	29.4	95.1	201.5	199.2	203.7
67.5°	18.1	18.1	18.1	18.1	24.9	81.5	165.3	163.0	167.5
70°	15.8	15.8	15.8	15.8	20.4	67.9	133.6	131.3	135.8
72.5°	13.6	13.6	13.6	13.6	18.1	56.6	106.4	106.4	108.7
75°	11.3	11.3	11.3	11.3	15.8	43.0	86.0	86.0	88.3
77.5°	9.1	9.1	9.1	9.1	11.3	34.0	65.7	63.4	63.4
80°	4.5	6.8	6.8	6.8	9.1	24.9	47.5	43.0	43.0
82.5°	2.3	4.5	4.5	4.5	9.1	18.1	31.7	29.4	29.4
85°	2.3	2.3	2.3	6.8	9.1	13.6	20.4	20.4	20.4
87.5°	0.0	2.3	4.5	9.1	11.3	11.3	13.6	11.3	11.3
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)