

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: P799710

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDSWWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799710  
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: LD6C40D010 EU6409050 6LBMDSWWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

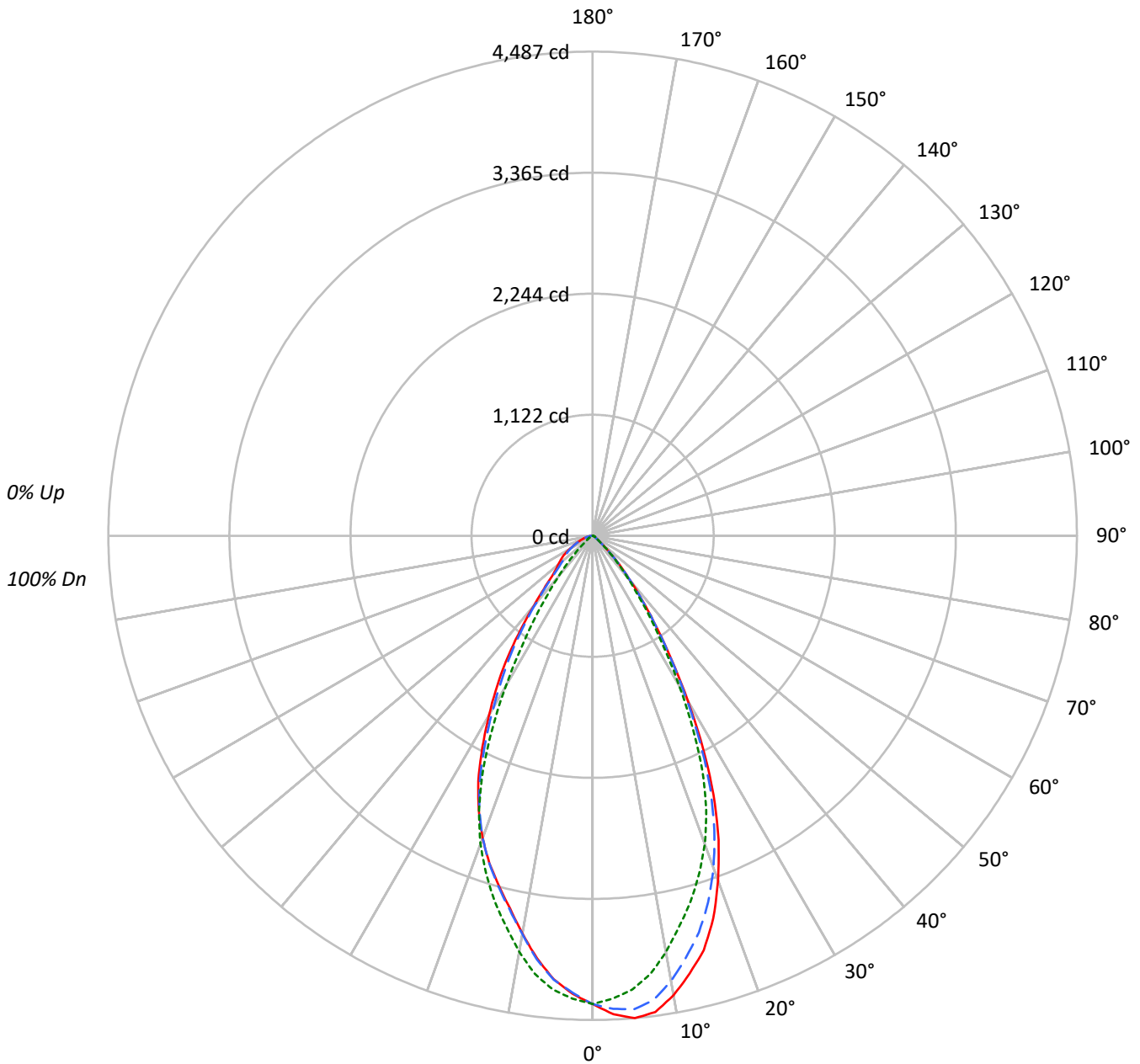
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3736.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 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): 47  
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°	237881	237881	237881
5°	246929	232302	227047
10°	240616	217898	208307
15°	225660	199099	190495
20°	198106	177250	173860
25°	160225	145617	151618
30°	111391	101433	121341
35°	68656	62138	91578
40°	38851	34830	60821
45°	18870	17994	41508
50°	7181	7181	35282
55°	3938	4655	32563
60°	2873	3695	26686
65°	2426	3152	21857
70°	2100	2693	18000
75°	1991	2775	15462
80°	1168	2368	11239
85°	1195	4717	10567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.3	10.6
10°-20°	998.4	26.7
20°-30°	1124.0	30.1
30°-40°	696.0	18.6
40°-50°	277.2	7.4
50°-60°	126.2	3.4
60°-70°	72.5	1.9
70°-80°	34.4	0.9
80°-90°	10.0	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°	2519.7	67.4
0°-40°	3215.6	86.1
0°-60°	3619.0	96.9
0°-90°	3736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4339	4339	4339	4339	4339	
5°	4487	4405	4221	4130	4126	423
15°	3976	3804	3508	3366	3356	1100
25°	2649	2578	2407	2467	2507	1191
35°	1026	1020	928	1294	1368	659
45°	243	243	232	505	535	206
55°	41	39	49	300	341	41
65°	19	17	24	167	168	18
75°	9	9	13	71	73	10
85°	2	2	8	17	17	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°	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3
2.5°	4438.5	4397.3	4388.0	4352.4	4292.5	4258.8	4238.2	4223.3	4249.5
5°	4487.2	4442.3	4404.8	4331.8	4221.4	4159.6	4129.7	4105.3	4125.9
7.5°	4451.6	4388.0	4337.4	4236.4	4096.0	4000.5	3959.3	3931.2	3949.9
10°	4322.5	4245.7	4187.7	4067.9	3914.4	3800.2	3749.6	3723.4	3742.1
12.5°	4154.0	4090.3	4002.4	3871.3	3706.6	3586.8	3549.3	3528.7	3536.2
15°	3976.1	3901.3	3803.9	3672.9	3508.1	3388.3	3365.9	3352.8	3356.5
17.5°	3717.8	3644.8	3560.6	3433.3	3281.6	3184.3	3184.3	3174.9	3180.5
20°	3395.8	3356.5	3274.1	3167.4	3038.3	2950.3	2978.4	2969.0	2980.2
22.5°	3047.6	3017.7	2946.5	2858.6	2750.0	2680.7	2742.5	2740.6	2755.6
25°	2648.9	2626.4	2577.8	2502.9	2407.4	2364.3	2467.3	2467.3	2506.6
27.5°	2209.0	2186.5	2152.8	2089.2	2010.5	1997.4	2149.1	2167.8	2210.8
30°	1759.7	1744.7	1726.0	1668.0	1602.4	1626.8	1836.4	1868.3	1916.9
32.5°	1359.1	1349.7	1344.1	1291.7	1233.7	1314.2	1553.8	1595.0	1643.6
35°	1025.9	1005.3	1020.2	980.9	928.5	1029.6	1293.6	1329.1	1368.4
37.5°	756.3	741.3	754.4	726.3	679.5	790.0	1039.0	1061.4	1087.6
40°	542.9	529.8	541.0	524.2	486.7	589.7	814.3	838.7	849.9
42.5°	385.6	363.2	374.4	361.3	342.6	443.7	640.2	662.7	666.4
45°	243.4	235.9	243.4	235.9	232.1	329.5	505.4	526.0	535.4
47.5°	147.9	138.5	138.5	134.8	138.5	243.4	417.5	447.4	462.4
50°	84.2	80.5	78.6	76.8	84.2	190.9	361.3	395.0	413.7
52.5°	56.2	54.3	54.3	52.4	61.8	161.0	325.7	355.7	374.4
55°	41.2	39.3	39.3	39.3	48.7	138.5	299.5	323.9	340.7
57.5°	31.8	31.8	31.8	30.0	41.2	117.9	267.7	280.8	293.9
60°	26.2	24.3	24.3	24.3	33.7	101.1	230.3	235.9	243.4
62.5°	20.6	20.6	20.6	20.6	28.1	89.9	198.4	198.4	202.2
65°	18.7	16.8	16.8	16.8	24.3	78.6	166.6	164.7	168.5
67.5°	15.0	15.0	15.0	15.0	20.6	67.4	136.7	134.8	138.5
70°	13.1	13.1	13.1	13.1	16.8	56.2	110.4	108.6	112.3
72.5°	11.2	11.2	11.2	11.2	15.0	46.8	88.0	88.0	89.9
75°	9.4	9.4	9.4	9.4	13.1	35.6	71.1	71.1	73.0
77.5°	7.5	7.5	7.5	7.5	9.4	28.1	54.3	52.4	52.4
80°	3.7	5.6	5.6	5.6	7.5	20.6	39.3	35.6	35.6
82.5°	1.9	3.7	3.7	3.7	7.5	15.0	26.2	24.3	24.3
85°	1.9	1.9	1.9	5.6	7.5	11.2	16.8	16.8	16.8
87.5°	0.0	1.9	3.7	7.5	9.4	9.4	11.2	9.4	9.4
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)