

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: P799814

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799814  
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 EU6509040 6LBMDSWGPH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

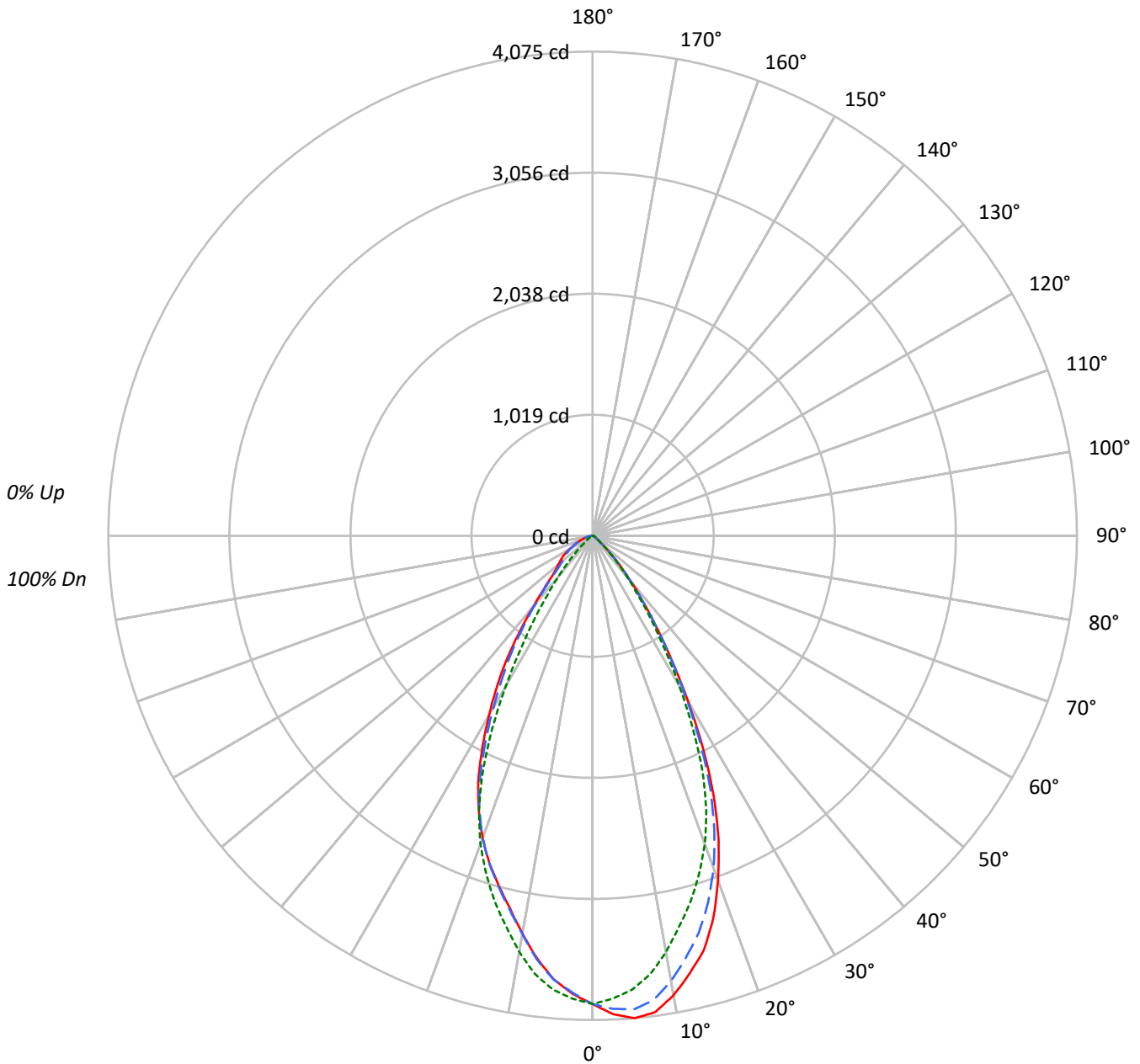
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3393.0 lumens  
Efficiency: N/A  
Efficacy: 58.1 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): 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	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°	216041	216041	216041
5°	224257	210972	206201
10°	218522	197892	189186
15°	204944	180824	173009
20°	179921	160973	157899
25°	145514	132250	137699
30°	101161	92122	110201
35°	62352	56436	83172
40°	35280	31631	55239
45°	17134	16343	37694
50°	6524	6524	32042
55°	3575	4224	29571
60°	2609	3355	24231
65°	2205	2867	19846
70°	1907	2452	16349
75°	1800	2521	14043
80°	1073	2147	10197
85°	1069	4277	9624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.8	10.6
10°-20°	906.8	26.7
20°-30°	1020.8	30.1
30°-40°	632.1	18.6
40°-50°	251.7	7.4
50°-60°	114.6	3.4
60°-70°	65.9	1.9
70°-80°	31.3	0.9
80°-90°	9.1	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°	2288.3	67.4
0°-40°	2920.4	86.1
0°-60°	3286.7	96.9
0°-90°	3393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3941	3941	3941	3941	3941	
5°	4075	4000	3834	3750	3747	384
15°	3611	3455	3186	3057	3048	999
25°	2406	2341	2186	2241	2276	1081
35°	932	927	843	1175	1243	599
45°	221	221	211	459	486	187
55°	37	36	44	272	309	37
65°	17	15	22	151	153	17
75°	8	8	12	65	66	9
85°	2	2	7	15	15	1
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°	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9
2.5°	4031.0	3993.6	3985.1	3952.8	3898.4	3867.8	3849.1	3835.5	3859.3
5°	4075.2	4034.4	4000.4	3934.1	3833.8	3777.7	3750.5	3728.4	3747.1
7.5°	4042.9	3985.1	3939.2	3847.4	3719.9	3633.2	3595.8	3570.3	3587.3
10°	3925.6	3855.9	3803.2	3694.4	3555.0	3451.3	3405.4	3381.6	3398.6
12.5°	3772.6	3714.8	3634.9	3515.9	3366.3	3257.5	3223.5	3204.8	3211.6
15°	3611.1	3543.1	3454.7	3335.7	3186.1	3077.3	3056.9	3045.0	3048.4
17.5°	3376.5	3310.2	3233.7	3118.1	2980.3	2891.9	2891.9	2883.4	2888.5
20°	3084.1	3048.4	2973.5	2876.6	2759.3	2679.4	2704.9	2696.4	2706.6
22.5°	2767.8	2740.6	2676.0	2596.1	2497.5	2434.6	2490.7	2489.0	2502.6
25°	2405.7	2385.3	2341.1	2273.1	2186.4	2147.3	2240.8	2240.8	2276.5
27.5°	2006.2	1985.8	1955.2	1897.4	1826.0	1814.1	1951.8	1968.8	2007.9
30°	1598.1	1584.5	1567.5	1514.8	1455.3	1477.4	1667.8	1696.7	1740.9
32.5°	1234.3	1225.8	1220.7	1173.1	1120.4	1193.5	1411.1	1448.5	1492.7
35°	931.7	913.0	926.6	890.9	843.3	935.1	1174.8	1207.1	1242.8
37.5°	686.9	673.3	685.2	659.7	617.2	717.5	943.6	964.0	987.8
40°	493.0	481.1	491.3	476.0	442.0	535.5	739.6	761.7	771.9
42.5°	350.2	329.8	340.0	328.1	311.1	402.9	581.4	601.8	605.3
45°	221.0	214.2	221.0	214.2	210.8	299.2	459.0	477.7	486.2
47.5°	134.3	125.8	125.8	122.4	125.8	221.0	379.1	406.3	419.9
50°	76.5	73.1	71.4	69.7	76.5	173.4	328.1	358.7	375.7
52.5°	51.0	49.3	49.3	47.6	56.1	146.2	295.8	323.0	340.0
55°	37.4	35.7	35.7	35.7	44.2	125.8	272.0	294.1	309.4
57.5°	28.9	28.9	28.9	27.2	37.4	107.1	243.1	255.0	266.9
60°	23.8	22.1	22.1	22.1	30.6	91.8	209.1	214.2	221.0
62.5°	18.7	18.7	18.7	18.7	25.5	81.6	180.2	180.2	183.6
65°	17.0	15.3	15.3	15.3	22.1	71.4	151.3	149.6	153.0
67.5°	13.6	13.6	13.6	13.6	18.7	61.2	124.1	122.4	125.8
70°	11.9	11.9	11.9	11.9	15.3	51.0	100.3	98.6	102.0
72.5°	10.2	10.2	10.2	10.2	13.6	42.5	79.9	79.9	81.6
75°	8.5	8.5	8.5	8.5	11.9	32.3	64.6	64.6	66.3
77.5°	6.8	6.8	6.8	6.8	8.5	25.5	49.3	47.6	47.6
80°	3.4	5.1	5.1	5.1	6.8	18.7	35.7	32.3	32.3
82.5°	1.7	3.4	3.4	3.4	6.8	13.6	23.8	22.1	22.1
85°	1.7	1.7	1.7	5.1	6.8	10.2	15.3	15.3	15.3
87.5°	0.0	1.7	3.4	6.8	8.5	8.5	10.2	8.5	8.5
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)