

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: P799682

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799682  
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 EU6409035 6LBMDSWGPH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

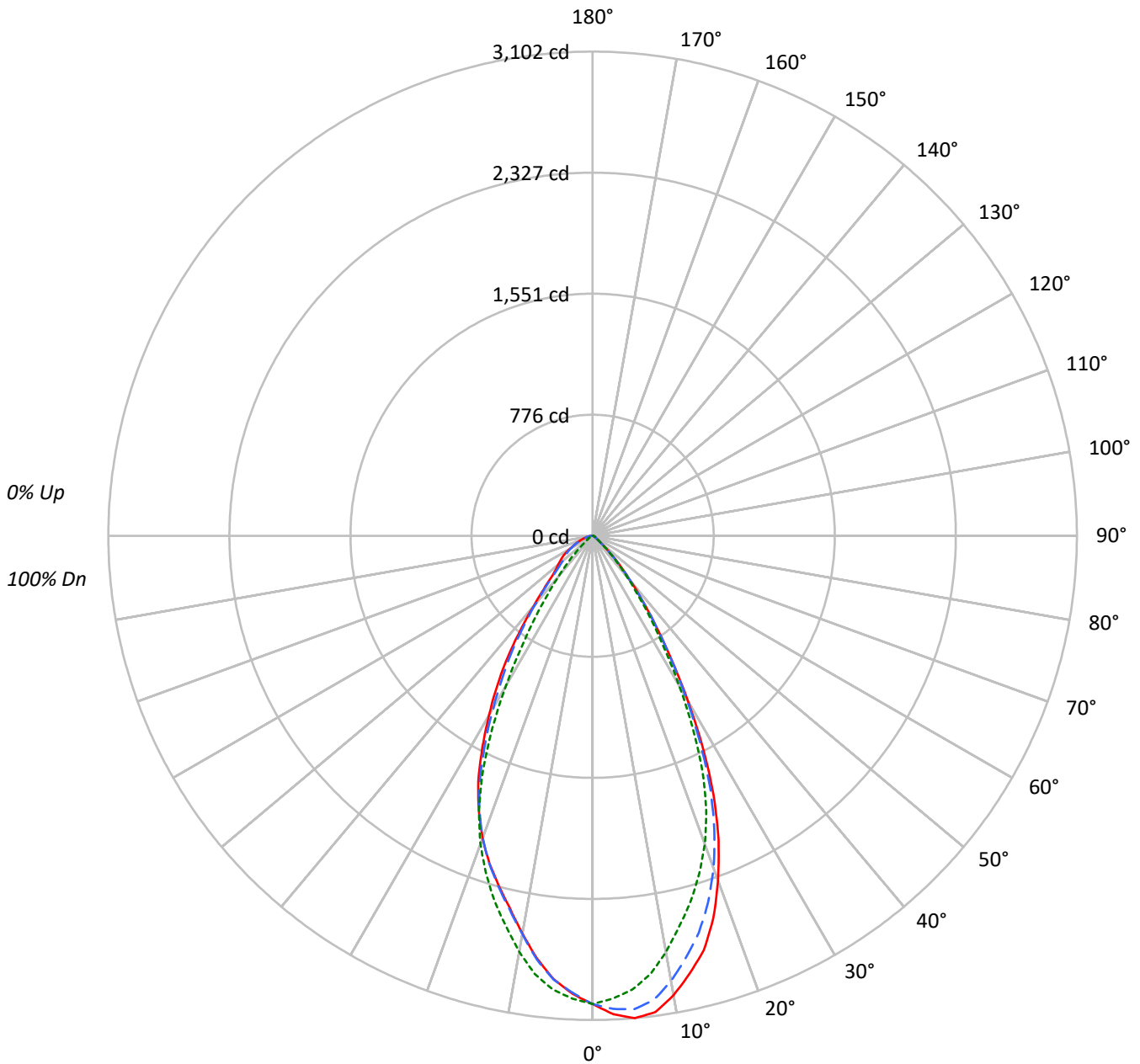
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2583.0 lumens  
Efficiency: N/A  
Efficacy: 55.0 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	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°	164466	164466	164466
5°	170724	160609	156977
10°	166357	150649	144019
15°	156017	137657	131703
20°	136967	122546	120206
25°	110777	100675	104825
30°	77012	70131	83893
35°	47469	42965	63316
40°	26857	24081	42050
45°	13048	12443	28701
50°	4964	4964	24392
55°	2724	3221	22518
60°	1984	2555	18452
65°	1673	2179	15112
70°	1459	1859	12454
75°	1377	1927	10696
80°	821	1642	7766
85°	818	3271	7296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.7	10.6
10°-20°	690.3	26.7
20°-30°	777.1	30.1
30°-40°	481.2	18.6
40°-50°	191.6	7.4
50°-60°	87.2	3.4
60°-70°	50.1	1.9
70°-80°	23.8	0.9
80°-90°	7.0	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°	1742.0	67.4
0°-40°	2223.2	86.1
0°-60°	2502.1	96.9
0°-90°	2583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2583.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3000	3000	3000	3000	3000	
5°	3102	3045	2919	2855	2853	292
15°	2749	2630	2426	2327	2321	761
25°	1831	1782	1664	1706	1733	823
35°	709	705	642	894	946	456
45°	168	168	160	350	370	143
55°	28	27	34	207	236	28
65°	13	12	17	115	116	13
75°	6	6	9	49	50	7
85°	1	1	5	12	12	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°	3000.1	3000.1	3000.1	3000.1	3000.1	3000.1	3000.1	3000.1	3000.1
2.5°	3068.7	3040.2	3033.8	3009.2	2967.8	2944.5	2930.2	2919.9	2938.0
5°	3102.4	3071.3	3045.4	2994.9	2918.6	2875.9	2855.2	2838.3	2852.6
7.5°	3077.8	3033.8	2998.8	2928.9	2831.9	2765.9	2737.4	2718.0	2730.9
10°	2988.5	2935.4	2895.3	2812.5	2706.3	2627.4	2592.4	2574.3	2587.2
12.5°	2872.0	2828.0	2767.2	2676.6	2562.7	2479.8	2453.9	2439.7	2444.9
15°	2749.0	2697.3	2630.0	2539.4	2425.5	2342.6	2327.1	2318.0	2320.6
17.5°	2570.4	2519.9	2461.7	2373.7	2268.9	2201.6	2201.6	2195.1	2199.0
20°	2347.8	2320.6	2263.7	2189.9	2100.6	2039.8	2059.2	2052.7	2060.5
22.5°	2107.1	2086.4	2037.2	1976.4	1901.3	1853.4	1896.1	1894.8	1905.2
25°	1831.4	1815.9	1782.2	1730.4	1664.4	1634.7	1705.8	1705.8	1733.0
27.5°	1527.2	1511.7	1488.4	1444.4	1390.0	1381.0	1485.8	1498.8	1528.5
30°	1216.6	1206.3	1193.3	1153.2	1107.9	1124.7	1269.7	1291.7	1325.3
32.5°	939.6	933.2	929.3	893.0	852.9	908.6	1074.2	1102.7	1136.4
35°	709.3	695.0	705.4	678.2	642.0	711.8	894.3	918.9	946.1
37.5°	522.9	512.5	521.6	502.2	469.8	546.2	718.3	733.9	752.0
40°	375.3	366.3	374.0	362.4	336.5	407.7	563.0	579.8	587.6
42.5°	266.6	251.1	258.9	249.8	236.9	306.7	442.6	458.2	460.8
45°	168.3	163.1	168.3	163.1	160.5	227.8	349.5	363.7	370.2
47.5°	102.2	95.8	95.8	93.2	95.8	168.3	288.6	309.3	319.7
50°	58.2	55.7	54.4	53.1	58.2	132.0	249.8	273.1	286.0
52.5°	38.8	37.5	37.5	36.2	42.7	111.3	225.2	245.9	258.9
55°	28.5	27.2	27.2	27.2	33.7	95.8	207.1	223.9	235.6
57.5°	22.0	22.0	22.0	20.7	28.5	81.5	185.1	194.1	203.2
60°	18.1	16.8	16.8	16.8	23.3	69.9	159.2	163.1	168.3
62.5°	14.2	14.2	14.2	14.2	19.4	62.1	137.2	137.2	139.8
65°	12.9	11.6	11.6	11.6	16.8	54.4	115.2	113.9	116.5
67.5°	10.4	10.4	10.4	10.4	14.2	46.6	94.5	93.2	95.8
70°	9.1	9.1	9.1	9.1	11.6	38.8	76.4	75.1	77.7
72.5°	7.8	7.8	7.8	7.8	10.4	32.4	60.8	60.8	62.1
75°	6.5	6.5	6.5	6.5	9.1	24.6	49.2	49.2	50.5
77.5°	5.2	5.2	5.2	5.2	6.5	19.4	37.5	36.2	36.2
80°	2.6	3.9	3.9	3.9	5.2	14.2	27.2	24.6	24.6
82.5°	1.3	2.6	2.6	2.6	5.2	10.4	18.1	16.8	16.8
85°	1.3	1.3	1.3	3.9	5.2	7.8	11.6	11.6	11.6
87.5°	0.0	1.3	2.6	5.2	6.5	6.5	7.8	6.5	6.5
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)