

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: P859188

Luminaire Tested: **LD4C60D010 EU4609030 4LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859188  
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: LD4C60D010 EU4609030 4LBMDSWGPH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

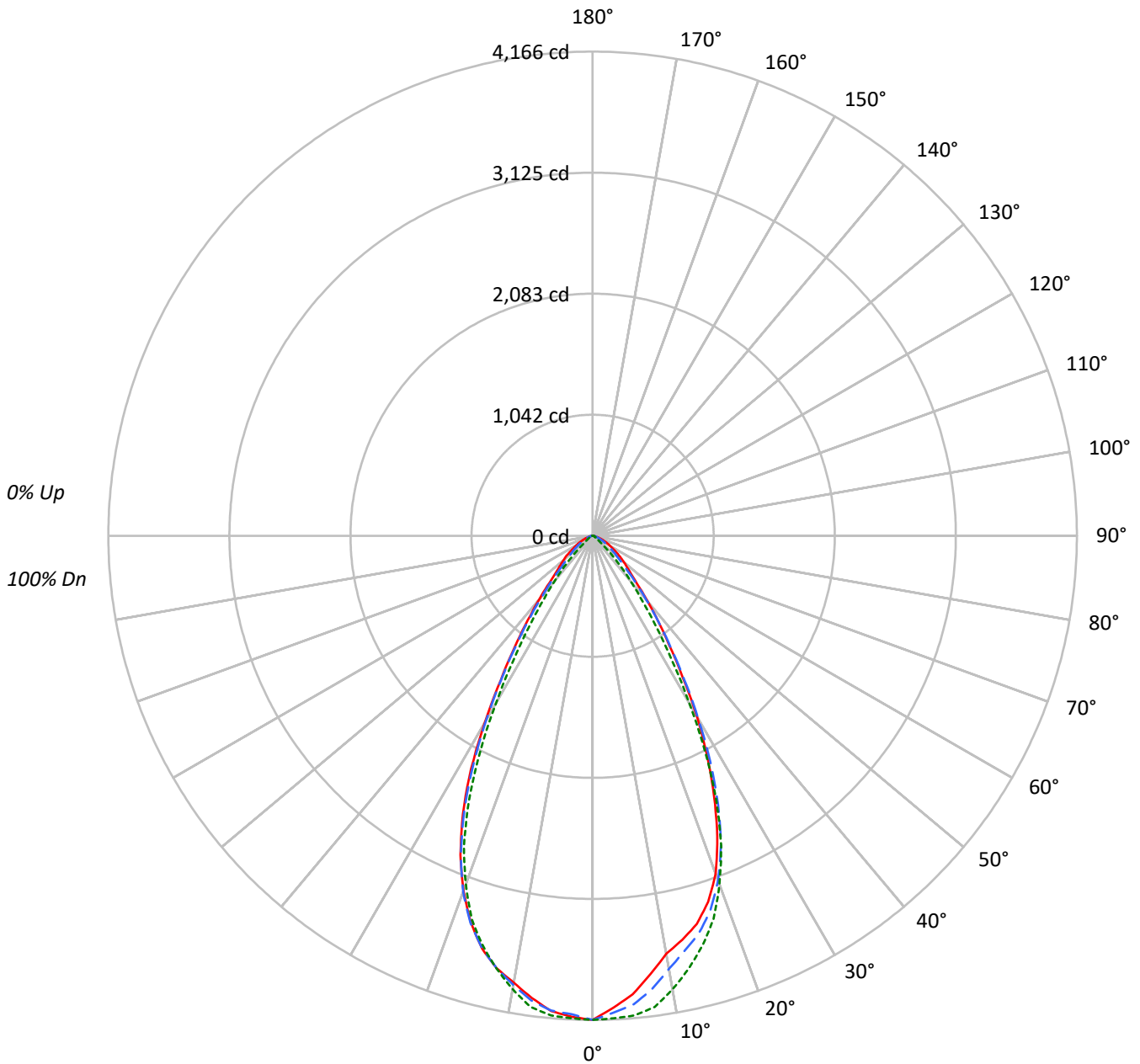
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3792.0 lumens  
Efficiency: N/A  
Efficacy: 52.7 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): 72  
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

TEST NUMBER: P859188

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDSWGPB

### Luminous Intensity Polar Plot





TEST NUMBER: P859188

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDSWGPH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

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

	0°	90°	180°
0°	511746	511746	511746
5°	488309	510914	506154
10°	455433	494354	487131
15°	439788	464335	467604
20°	404542	417159	424728
25°	335292	341406	357971
30°	255077	235911	262368
35°	172698	141353	174633
40°	117618	80989	114010
45°	81589	40794	77124
50°	66397	16590	62097
55°	53740	10324	48921
60°	42679	7912	38723
65°	33663	6541	29913
70°	25431	5783	23097
75°	18322	4557	16803
80°	13654	4528	11391
85°	9021	4511	9021



TEST NUMBER: P859188

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDSWGPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	383.0	10.1
10°-20°	1006.3	26.5
20°-30°	1154.5	30.4
30°-40°	701.4	18.5
40°-50°	300.6	7.9
50°-60°	144.2	3.8
60°-70°	70.1	1.8
70°-80°	26.0	0.7
80°-90°	6.0	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°	2543.8	67.1
0°-40°	3245.1	85.6
0°-60°	3689.9	97.3
0°-90°	3792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3792.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4166	4166	4166	4166	4166	
5°	3960	4046	4143	4101	4104	368
15°	3458	3538	3651	3673	3676	963
25°	2474	2554	2519	2615	2641	1122
35°	1152	1168	942	1139	1164	738
45°	470	418	235	376	444	382
55°	251	187	48	167	228	226
65°	116	77	22	71	103	117
75°	39	26	10	22	35	42
85°	6	6	3	3	6	9
90°	0	0	0	0	0	



TEST NUMBER: P859188

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDSWGPB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5
2.5°	4065.7	4110.8	4107.6	4146.2	4155.8	4146.2	4120.4	4146.2	4142.9
5°	3959.6	4011.1	4046.4	4110.8	4142.9	4136.5	4101.1	4107.6	4104.3
7.5°	3805.2	3869.5	3930.6	4027.1	4088.3	4085.0	4033.6	4023.9	4011.1
10°	3650.8	3711.9	3782.7	3882.4	3962.8	3975.7	3924.2	3911.3	3904.9
12.5°	3560.7	3609.0	3657.2	3744.1	3814.9	3840.6	3811.6	3814.9	3811.6
15°	3457.8	3506.1	3538.2	3602.6	3650.8	3686.2	3673.3	3692.6	3676.5
17.5°	3303.4	3361.3	3374.2	3422.4	3457.8	3480.3	3493.2	3512.5	3486.8
20°	3094.3	3139.4	3155.5	3174.8	3190.8	3219.8	3258.4	3277.7	3248.7
22.5°	2801.6	2888.5	2885.3	2875.6	2891.7	2901.3	2962.5	2994.6	2972.1
25°	2473.5	2563.6	2554.0	2515.4	2518.6	2537.9	2615.1	2656.9	2640.8
27.5°	2129.4	2213.0	2190.5	2116.5	2097.2	2126.2	2225.9	2274.1	2264.5
30°	1798.1	1852.7	1817.4	1685.5	1663.0	1698.3	1827.0	1875.3	1849.5
32.5°	1441.0	1482.8	1466.8	1305.9	1267.3	1302.7	1453.9	1498.9	1470.0
35°	1151.5	1190.1	1167.6	977.8	942.5	981.1	1138.7	1190.1	1164.4
37.5°	923.2	952.1	923.2	720.5	688.3	726.9	878.1	945.7	913.5
40°	733.4	755.9	717.3	530.7	505.0	524.3	665.8	733.4	710.9
42.5°	579.0	595.1	553.2	389.2	360.3	386.0	501.8	562.9	550.0
45°	469.6	469.6	418.2	270.2	234.8	260.5	376.3	440.7	443.9
47.5°	402.1	392.4	328.1	180.1	135.1	170.5	299.1	366.7	376.3
50°	347.4	334.5	270.2	131.9	86.8	122.2	247.7	315.2	324.9
52.5°	299.1	289.5	225.2	102.9	61.1	93.3	209.1	273.4	283.1
55°	250.9	244.5	186.6	80.4	48.2	70.8	167.3	221.9	228.4
57.5°	205.9	196.2	151.2	67.5	38.6	57.9	138.3	183.3	189.8
60°	173.7	164.0	122.2	54.7	32.2	45.0	112.6	151.2	157.6
62.5°	144.7	135.1	99.7	45.0	25.7	38.6	90.1	122.2	128.7
65°	115.8	109.4	77.2	35.4	22.5	28.9	70.8	96.5	102.9
67.5°	93.3	86.8	61.1	28.9	19.3	22.5	54.7	77.2	83.6
70°	70.8	64.3	45.0	22.5	16.1	19.3	41.8	57.9	64.3
72.5°	51.5	48.2	35.4	19.3	12.9	16.1	28.9	41.8	48.2
75°	38.6	35.4	25.7	12.9	9.6	12.9	22.5	32.2	35.4
77.5°	25.7	25.7	19.3	9.6	9.6	9.6	16.1	22.5	22.5
80°	19.3	16.1	12.9	6.4	6.4	6.4	9.6	16.1	16.1
82.5°	12.9	9.6	9.6	6.4	6.4	6.4	6.4	9.6	9.6
85°	6.4	6.4	6.4	3.2	3.2	3.2	3.2	6.4	6.4
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)