

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: P800030

Luminaire Tested: **LD6C70D010 EU6709030 6LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P800030  
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: LD6C70D010 EU6709030 6LBMDSWGPH  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

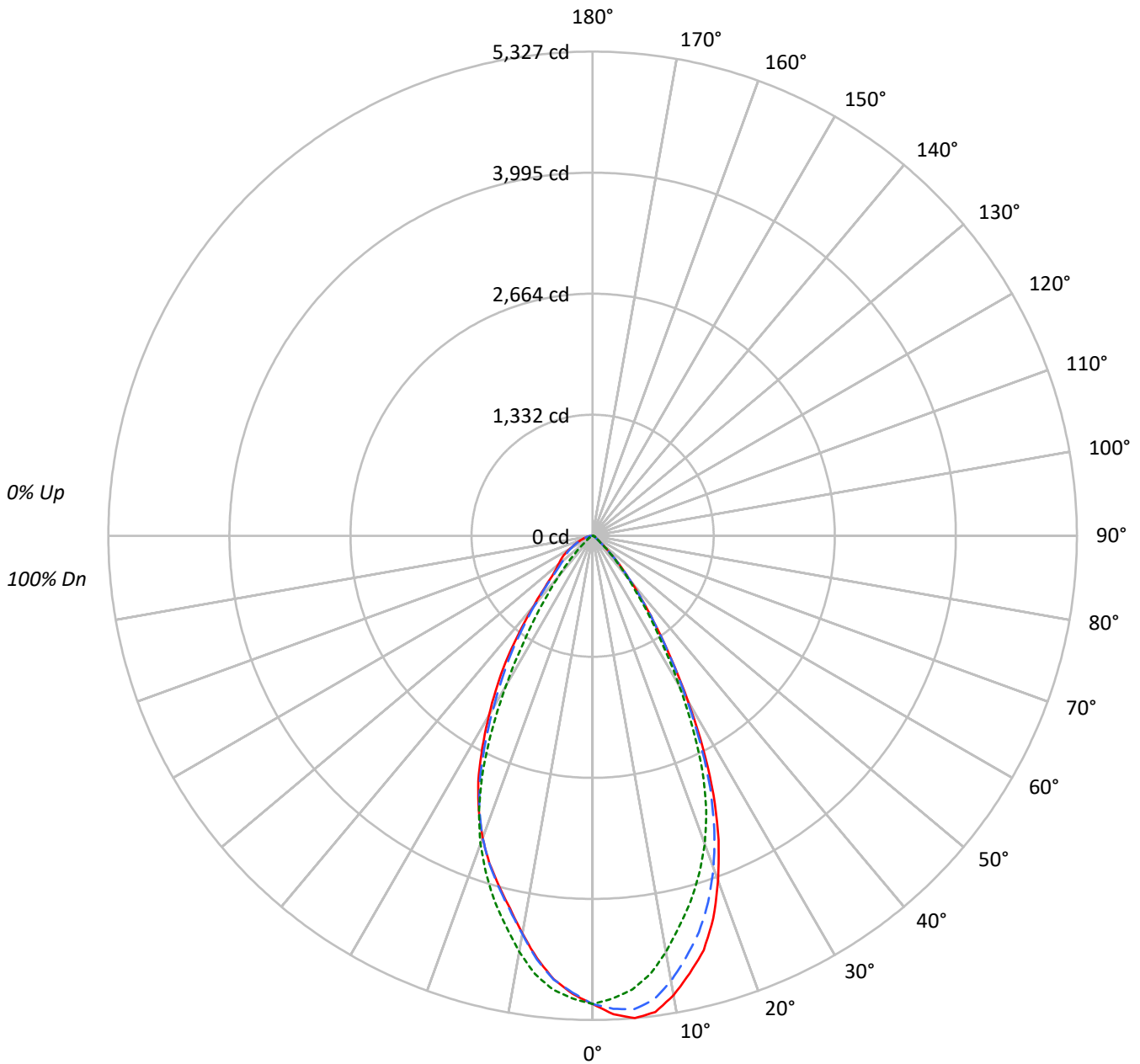
Lumens per Lamp: N/A  
Luminaire Lumens: 4435.0 lumens  
Efficiency: N/A  
Efficacy: 56.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
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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CATALOG NUMBER: LD6C70D010 EU6709030 6LBMDSWGPB

### 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°	282390	282390	282390
5°	293132	275764	269529
10°	285633	258663	247284
15°	267885	236352	226136
20°	235174	210409	206390
25°	190203	172861	179986
30°	132229	120417	144047
35°	81499	73763	108717
40°	46122	41349	72200
45°	22398	21367	49276
50°	8529	8529	41883
55°	4674	5524	38661
60°	3410	4386	31675
65°	2880	3749	25943
70°	2500	3206	21366
75°	2351	3304	18364
80°	1389	2810	13322
85°	1384	5598	12580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.6	10.6
10°-20°	1185.2	26.7
20°-30°	1334.3	30.1
30°-40°	826.2	18.6
40°-50°	329.0	7.4
50°-60°	149.8	3.4
60°-70°	86.1	1.9
70°-80°	40.9	0.9
80°-90°	11.9	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°	2991.1	67.4
0°-40°	3817.3	86.1
0°-60°	4296.1	96.9
0°-90°	4435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4435.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5151	5151	5151	5151	5151	
5°	5327	5229	5011	4902	4898	502
15°	4720	4516	4164	3996	3984	1306
25°	3144	3060	2858	2929	2976	1413
35°	1218	1211	1102	1536	1624	783
45°	289	289	276	600	636	245
55°	49	47	58	356	404	49
65°	22	20	29	198	200	22
75°	11	11	16	84	87	11
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°	5151.2	5151.2	5151.2	5151.2	5151.2	5151.2	5151.2	5151.2	5151.2
2.5°	5269.0	5220.1	5209.0	5166.8	5095.6	5055.6	5031.2	5013.4	5044.5
5°	5326.8	5273.4	5229.0	5142.3	5011.2	4937.9	4902.3	4873.4	4897.9
7.5°	5284.5	5209.0	5149.0	5029.0	4862.3	4749.0	4700.1	4666.7	4689.0
10°	5131.2	5040.1	4971.2	4829.0	4646.7	4511.2	4451.2	4420.1	4442.3
12.5°	4931.2	4855.6	4751.2	4595.6	4400.1	4257.8	4213.4	4189.0	4197.8
15°	4720.1	4631.2	4515.6	4360.1	4164.5	4022.3	3995.6	3980.1	3984.5
17.5°	4413.4	4326.7	4226.7	4075.6	3895.6	3780.1	3780.1	3769.0	3775.6
20°	4031.2	3984.5	3886.7	3760.1	3606.7	3502.3	3535.6	3524.5	3537.8
22.5°	3617.8	3582.3	3497.8	3393.4	3264.5	3182.3	3255.6	3253.4	3271.2
25°	3144.5	3117.8	3060.1	2971.2	2857.8	2806.7	2928.9	2928.9	2975.6
27.5°	2622.3	2595.6	2555.6	2480.0	2386.7	2371.2	2551.2	2573.4	2624.5
30°	2088.9	2071.1	2048.9	1980.0	1902.3	1931.1	2180.0	2217.8	2275.6
32.5°	1613.4	1602.2	1595.6	1533.4	1464.5	1560.0	1844.5	1893.4	1951.1
35°	1217.8	1193.4	1211.1	1164.5	1102.2	1222.2	1535.6	1577.8	1624.5
37.5°	897.8	880.0	895.6	862.2	806.7	937.8	1233.4	1260.0	1291.1
40°	644.5	628.9	642.2	622.2	577.8	700.0	966.7	995.6	1008.9
42.5°	457.8	431.1	444.5	428.9	406.7	526.7	760.0	786.7	791.1
45°	288.9	280.0	288.9	280.0	275.6	391.1	600.0	624.5	635.6
47.5°	175.6	164.4	164.4	160.0	164.4	288.9	495.6	531.1	548.9
50°	100.0	95.6	93.3	91.1	100.0	226.7	428.9	468.9	491.1
52.5°	66.7	64.4	64.4	62.2	73.3	191.1	386.7	422.2	444.5
55°	48.9	46.7	46.7	46.7	57.8	164.4	355.6	384.5	404.5
57.5°	37.8	37.8	37.8	35.6	48.9	140.0	317.8	333.3	348.9
60°	31.1	28.9	28.9	28.9	40.0	120.0	273.3	280.0	288.9
62.5°	24.4	24.4	24.4	24.4	33.3	106.7	235.6	235.6	240.0
65°	22.2	20.0	20.0	20.0	28.9	93.3	197.8	195.6	200.0
67.5°	17.8	17.8	17.8	17.8	24.4	80.0	162.2	160.0	164.4
70°	15.6	15.6	15.6	15.6	20.0	66.7	131.1	128.9	133.3
72.5°	13.3	13.3	13.3	13.3	17.8	55.6	104.4	104.4	106.7
75°	11.1	11.1	11.1	11.1	15.6	42.2	84.4	84.4	86.7
77.5°	8.9	8.9	8.9	8.9	11.1	33.3	64.4	62.2	62.2
80°	4.4	6.7	6.7	6.7	8.9	24.4	46.7	42.2	42.2
82.5°	2.2	4.4	4.4	4.4	8.9	17.8	31.1	28.9	28.9
85°	2.2	2.2	2.2	6.7	8.9	13.3	20.0	20.0	20.0
87.5°	0.0	2.2	4.4	8.9	11.1	11.1	13.3	11.1	11.1
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)