

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: P800055

Luminaire Tested: **LD6C70D010 EU6709040 6LBMDSWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P800055  
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 EU6709040 6LBMDSWH  
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

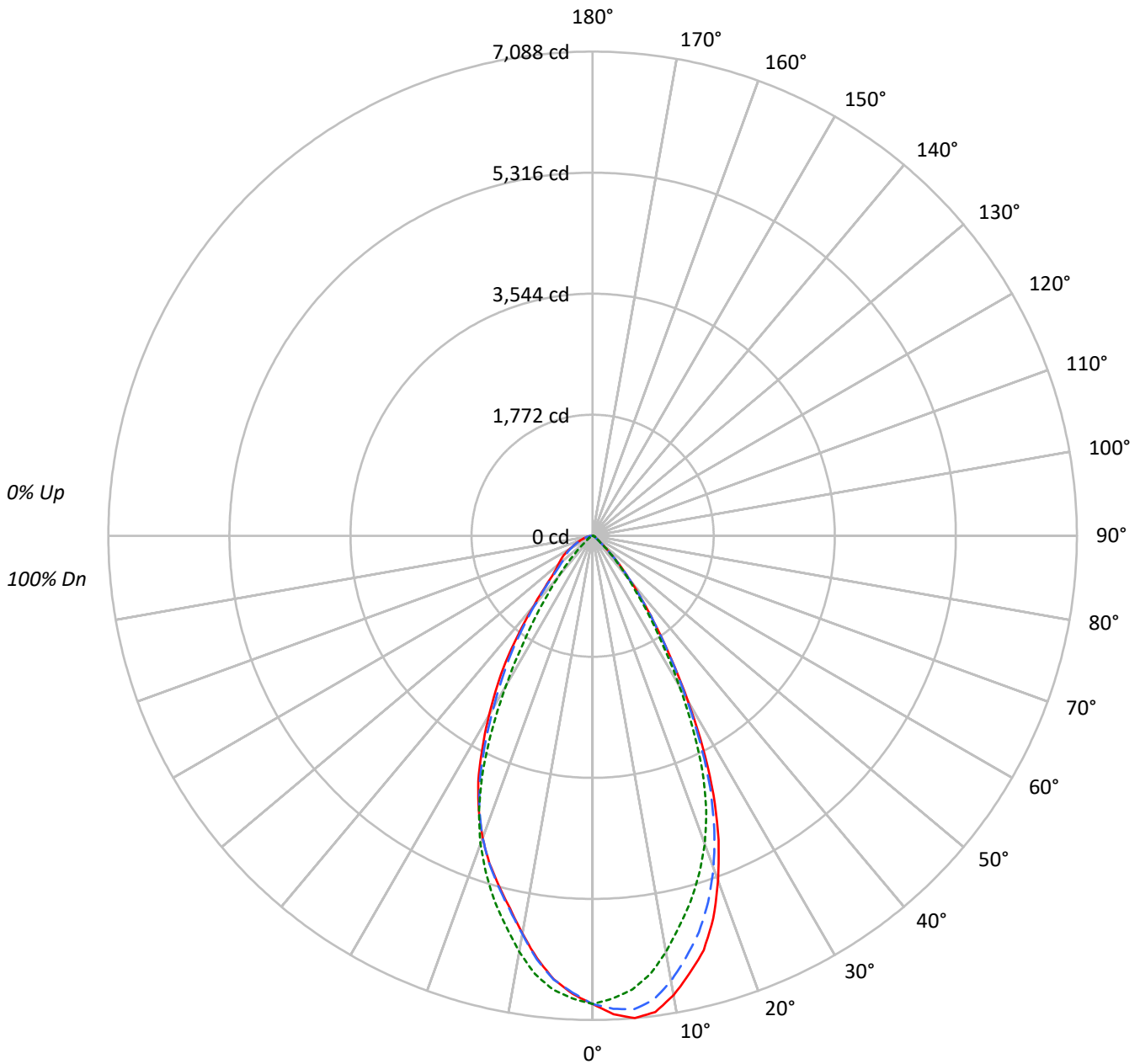
Lumens per Lamp: N/A  
Luminaire Lumens: 5901.0 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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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### Luminous Intensity Polar Plot





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**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	110	108	105	103	104	102	100	100	98	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	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

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

	0°	90°	180°
0°	375732	375732	375732
5°	390022	366921	358622
10°	380048	344165	329024
15°	356432	314480	300887
20°	312910	279960	274616
25°	253073	230003	239482
30°	175938	160215	191662
35°	108435	98149	144648
40°	61365	55017	96066
45°	29802	28422	65565
50°	11351	11351	55734
55°	6222	7350	51429
60°	4539	5833	42146
65°	3840	4981	34517
70°	3318	4264	28434
75°	3135	4384	24422
80°	1863	3725	17742
85°	1887	7422	16731



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.5	10.6
10°-20°	1577.0	26.7
20°-30°	1775.3	30.1
30°-40°	1099.3	18.6
40°-50°	437.8	7.4
50°-60°	199.3	3.4
60°-70°	114.6	1.9
70°-80°	54.4	0.9
80°-90°	15.9	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°	3979.8	67.4
0°-40°	5079.1	86.1
0°-60°	5716.2	96.9
0°-90°	5901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5901.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6854	6854	6854	6854	6854	
5°	7088	6957	6668	6523	6517	667
15°	6280	6008	5541	5316	5302	1738
25°	4184	4072	3802	3897	3959	1881
35°	1620	1612	1467	2043	2161	1041
45°	384	384	367	798	846	326
55°	65	62	77	473	538	65
65°	30	27	38	263	266	29
75°	15	15	21	112	115	15
85°	3	3	12	27	27	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°	6853.9	6853.9	6853.9	6853.9	6853.9	6853.9	6853.9	6853.9	6853.9
2.5°	7010.6	6945.6	6930.8	6874.6	6780.0	6726.8	6694.3	6670.6	6712.0
5°	7087.5	7016.6	6957.4	6842.1	6667.7	6570.1	6522.8	6484.3	6516.9
7.5°	7031.3	6930.8	6851.0	6691.3	6469.5	6318.7	6253.7	6209.3	6238.9
10°	6827.3	6706.1	6614.4	6425.2	6182.7	6002.4	5922.5	5881.1	5910.7
12.5°	6561.2	6460.7	6321.7	6114.7	5854.5	5665.3	5606.2	5573.6	5585.5
15°	6280.3	6162.0	6008.3	5801.3	5541.1	5351.9	5316.4	5295.7	5301.6
17.5°	5872.3	5757.0	5623.9	5422.8	5183.3	5029.6	5029.6	5014.8	5023.7
20°	5363.7	5301.6	5171.5	5003.0	4798.9	4660.0	4704.3	4689.5	4707.3
22.5°	4813.7	4766.4	4654.1	4515.1	4343.6	4234.2	4331.8	4328.8	4352.5
25°	4183.9	4148.4	4071.6	3953.3	3802.5	3734.5	3897.1	3897.1	3959.2
27.5°	3489.1	3453.6	3400.4	3299.8	3175.6	3154.9	3394.4	3424.0	3492.0
30°	2779.4	2755.8	2726.2	2634.5	2531.0	2569.5	2900.7	2950.9	3027.8
32.5°	2146.7	2131.9	2123.0	2040.2	1948.6	2075.7	2454.2	2519.2	2596.1
35°	1620.3	1587.8	1611.5	1549.4	1466.6	1626.3	2043.2	2099.4	2161.4
37.5°	1194.6	1170.9	1191.6	1147.3	1073.3	1247.8	1641.0	1676.5	1717.9
40°	857.5	836.8	854.5	827.9	768.8	931.4	1286.2	1324.7	1342.4
42.5°	609.1	573.6	591.4	570.7	541.1	700.8	1011.2	1046.7	1052.6
45°	384.4	372.6	384.4	372.6	366.6	520.4	798.3	830.9	845.7
47.5°	233.6	218.8	218.8	212.9	218.8	384.4	659.4	706.7	730.3
50°	133.1	127.1	124.2	121.2	133.1	301.6	570.7	623.9	653.5
52.5°	88.7	85.7	85.7	82.8	97.6	254.3	514.5	561.8	591.4
55°	65.1	62.1	62.1	62.1	76.9	218.8	473.1	511.5	538.1
57.5°	50.3	50.3	50.3	47.3	65.1	186.3	422.8	443.5	464.2
60°	41.4	38.4	38.4	38.4	53.2	159.7	363.7	372.6	384.4
62.5°	32.5	32.5	32.5	32.5	44.4	141.9	313.4	313.4	319.3
65°	29.6	26.6	26.6	26.6	38.4	124.2	263.2	260.2	266.1
67.5°	23.7	23.7	23.7	23.7	32.5	106.4	215.8	212.9	218.8
70°	20.7	20.7	20.7	20.7	26.6	88.7	174.5	171.5	177.4
72.5°	17.7	17.7	17.7	17.7	23.7	73.9	139.0	139.0	141.9
75°	14.8	14.8	14.8	14.8	20.7	56.2	112.4	112.4	115.3
77.5°	11.8	11.8	11.8	11.8	14.8	44.4	85.7	82.8	82.8
80°	5.9	8.9	8.9	8.9	11.8	32.5	62.1	56.2	56.2
82.5°	3.0	5.9	5.9	5.9	11.8	23.7	41.4	38.4	38.4
85°	3.0	3.0	3.0	8.9	11.8	17.7	26.6	26.6	26.6
87.5°	0.0	3.0	5.9	11.8	14.8	14.8	17.7	14.8	14.8
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)