

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: P800070

Luminaire Tested: **LD6C70D010 EU6709050 6LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P800070
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 EU6709050 6LBMDSWWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

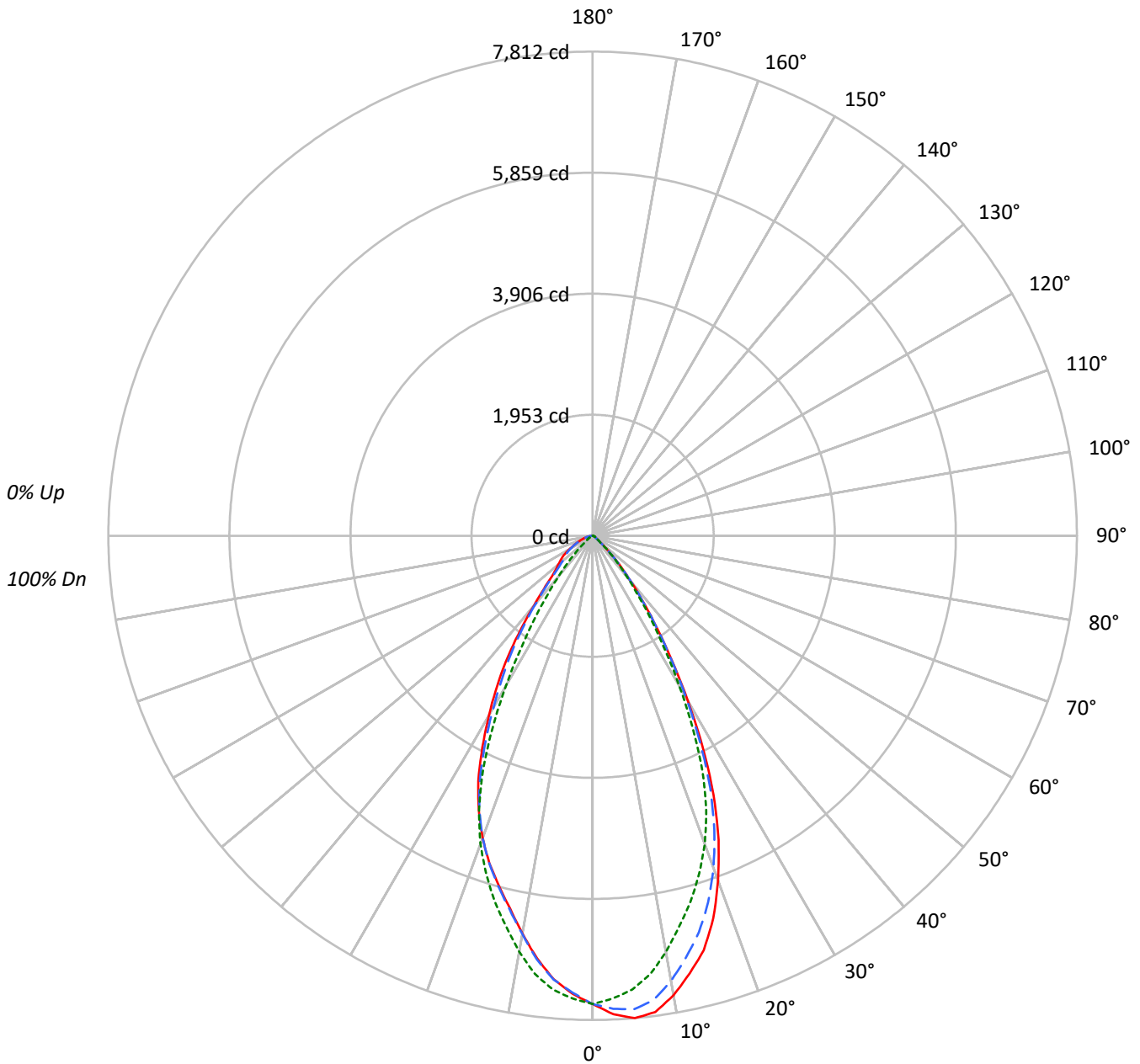
Lumens per Lamp: N/A
Luminaire Lumens: 6504.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): 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°	414128	414128	414128
5°	429880	404412	395266
10°	418886	379335	362646
15°	392857	346614	331631
20°	344885	308569	302677
25°	278937	253503	263955
30°	193916	176590	211248
35°	119518	108181	159431
40°	67634	60635	105884
45°	32848	31329	72263
50°	12511	12511	61422
55°	6853	8095	56686
60°	5000	6436	46455
65°	4229	5500	38046
70°	3654	4696	31335
75°	3452	4829	26921
80°	2052	4104	19542
85°	2076	8177	18429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.6	10.6
10°-20°	1738.2	26.7
20°-30°	1956.7	30.1
30°-40°	1211.6	18.6
40°-50°	482.5	7.4
50°-60°	219.7	3.4
60°-70°	126.3	1.9
70°-80°	60.0	0.9
80°-90°	17.5	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°	4386.5	67.4
0°-40°	5598.1	86.1
0°-60°	6300.3	96.9
0°-90°	6504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6504.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7554	7554	7554	7554	7554	
5°	7812	7668	7349	7189	7183	736
15°	6922	6622	6107	5860	5843	1915
25°	4612	4488	4191	4295	4364	2073
35°	1786	1776	1616	2252	2382	1148
45°	424	424	404	880	932	359
55°	72	68	85	521	593	71
65°	33	29	42	290	293	32
75°	16	16	23	124	127	17
85°	3	3	13	29	29	3
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°	7554.3	7554.3	7554.3	7554.3	7554.3	7554.3	7554.3	7554.3	7554.3
2.5°	7727.0	7655.3	7639.0	7577.1	7472.8	7414.2	7378.3	7352.3	7397.9
5°	7811.8	7733.6	7668.4	7541.3	7349.0	7241.5	7189.3	7146.9	7182.8
7.5°	7749.9	7639.0	7551.1	7375.1	7130.6	6964.4	6892.7	6843.9	6876.4
10°	7525.0	7391.4	7290.3	7081.8	6814.5	6615.7	6527.7	6482.1	6514.7
12.5°	7231.7	7120.9	6967.7	6739.6	6452.8	6244.2	6179.0	6143.2	6156.2
15°	6922.1	6791.7	6622.2	6394.1	6107.3	5898.8	5859.6	5836.8	5843.3
17.5°	6472.3	6345.2	6198.6	5977.0	5713.0	5543.5	5543.5	5527.2	5537.0
20°	5911.8	5843.3	5700.0	5514.2	5289.3	5136.2	5185.0	5168.7	5188.3
22.5°	5305.6	5253.5	5129.6	4976.5	4787.4	4666.9	4774.4	4771.1	4797.2
25°	4611.5	4572.3	4487.6	4357.3	4191.0	4116.1	4295.3	4295.3	4363.8
27.5°	3845.6	3806.5	3747.8	3637.0	3500.1	3477.3	3741.3	3773.9	3848.9
30°	3063.4	3037.4	3004.8	2903.8	2789.7	2832.1	3197.1	3252.5	3337.2
32.5°	2366.0	2349.7	2339.9	2248.7	2147.7	2287.8	2705.0	2776.7	2861.4
35°	1785.9	1750.1	1776.1	1707.7	1616.5	1792.4	2252.0	2313.9	2382.3
37.5°	1316.6	1290.6	1313.4	1264.5	1183.0	1375.3	1808.7	1847.8	1893.5
40°	945.1	922.3	941.8	912.5	847.3	1026.6	1417.7	1460.0	1479.6
42.5°	671.3	632.2	651.8	629.0	596.4	772.4	1114.6	1153.7	1160.2
45°	423.7	410.6	423.7	410.6	404.1	573.6	879.9	915.8	932.1
47.5°	257.5	241.2	241.2	234.6	241.2	423.7	726.8	778.9	805.0
50°	146.7	140.1	136.9	133.6	146.7	332.4	629.0	687.6	720.2
52.5°	97.8	94.5	94.5	91.3	107.5	280.3	567.1	619.2	651.8
55°	71.7	68.4	68.4	68.4	84.7	241.2	521.4	563.8	593.1
57.5°	55.4	55.4	55.4	52.1	71.7	205.3	466.0	488.8	511.7
60°	45.6	42.4	42.4	42.4	58.7	176.0	400.9	410.6	423.7
62.5°	35.8	35.8	35.8	35.8	48.9	156.4	345.5	345.5	352.0
65°	32.6	29.3	29.3	29.3	42.4	136.9	290.0	286.8	293.3
67.5°	26.1	26.1	26.1	26.1	35.8	117.3	237.9	234.6	241.2
70°	22.8	22.8	22.8	22.8	29.3	97.8	192.3	189.0	195.5
72.5°	19.6	19.6	19.6	19.6	26.1	81.5	153.2	153.2	156.4
75°	16.3	16.3	16.3	16.3	22.8	61.9	123.8	123.8	127.1
77.5°	13.0	13.0	13.0	13.0	16.3	48.9	94.5	91.3	91.3
80°	6.5	9.8	9.8	9.8	13.0	35.8	68.4	61.9	61.9
82.5°	3.3	6.5	6.5	6.5	13.0	26.1	45.6	42.4	42.4
85°	3.3	3.3	3.3	9.8	13.0	19.6	29.3	29.3	29.3
87.5°	0.0	3.3	6.5	13.0	16.3	16.3	19.6	16.3	16.3
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)