

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: P800068

Luminaire Tested: **LD6C70D010 EU6709050 6LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P800068
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 6LBMDSWLI
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

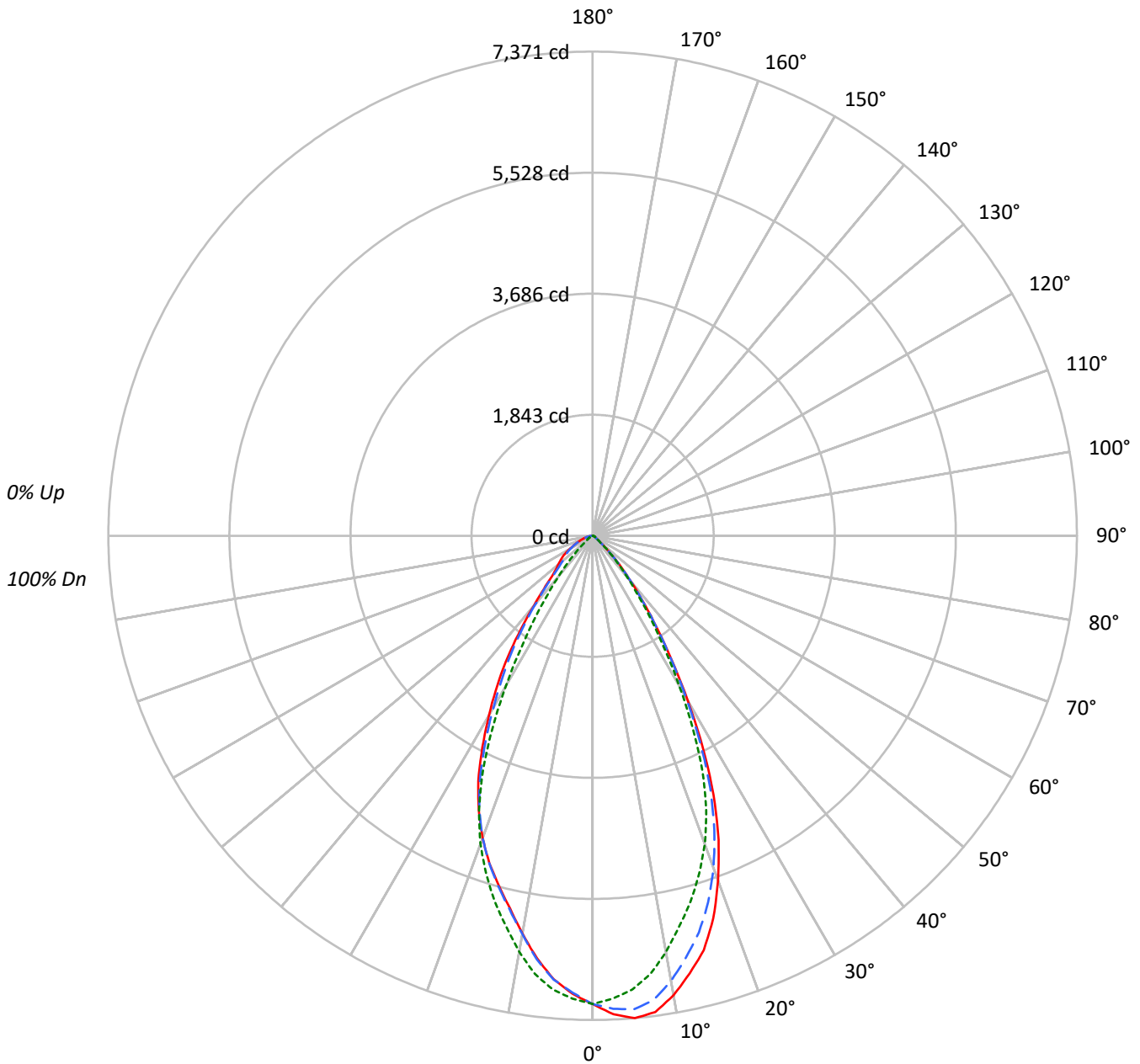
Lumens per Lamp: N/A
Luminaire Lumens: 6137.1 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{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					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								
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°	390758	390758	390758
5°	405623	381592	372963
10°	395250	357931	342184
15°	370689	327056	312919
20°	325423	291161	285596
25°	263193	239203	249057
30°	182978	166627	199328
35°	112772	102071	150436
40°	63820	57214	99909
45°	30995	29561	68185
50°	11803	11803	57960
55°	6470	7646	53494
60°	4725	6074	43834
65°	3995	5189	35905
70°	3446	4440	29572
75°	3262	4554	25396
80°	1957	3883	18437
85°	1950	7737	17423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.6	10.6
10°-20°	1640.1	26.7
20°-30°	1846.3	30.1
30°-40°	1143.3	18.6
40°-50°	455.3	7.4
50°-60°	207.3	3.4
60°-70°	119.2	1.9
70°-80°	56.6	0.9
80°-90°	16.5	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°	4139.0	67.4
0°-40°	5282.2	86.1
0°-60°	5944.8	96.9
0°-90°	6137.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6137.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7128	7128	7128	7128	7128	
5°	7371	7236	6934	6784	6778	694
15°	6532	6249	5763	5529	5514	1807
25°	4351	4234	3955	4053	4118	1956
35°	1685	1676	1525	2125	2248	1083
45°	400	400	381	830	880	339
55°	68	65	80	492	560	67
65°	31	28	40	274	277	30
75°	15	15	22	117	120	16
85°	3	3	12	28	28	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°	7128.0	7128.0	7128.0	7128.0	7128.0	7128.0	7128.0	7128.0	7128.0
2.5°	7291.0	7223.4	7208.0	7149.6	7051.2	6995.8	6962.0	6937.4	6980.4
5°	7371.0	7297.2	7235.7	7115.7	6934.3	6832.8	6783.6	6743.7	6777.5
7.5°	7312.6	7208.0	7125.0	6958.9	6728.3	6571.5	6503.8	6457.7	6488.4
10°	7100.4	6974.3	6879.0	6682.2	6430.0	6242.4	6159.4	6116.3	6147.1
12.5°	6823.6	6719.1	6574.5	6359.3	6088.7	5891.9	5830.4	5796.5	5808.8
15°	6531.5	6408.5	6248.6	6033.3	5762.7	5565.9	5529.0	5507.5	5513.6
17.5°	6107.1	5987.2	5848.8	5639.7	5390.6	5230.7	5230.7	5215.3	5224.6
20°	5578.2	5513.6	5378.3	5203.0	4990.9	4846.3	4892.5	4877.1	4895.5
22.5°	5006.2	4957.0	4840.2	4695.7	4517.3	4403.5	4505.0	4501.9	4526.5
25°	4351.2	4314.3	4234.4	4111.4	3954.6	3883.8	4053.0	4053.0	4117.5
27.5°	3628.6	3591.7	3536.3	3431.8	3302.6	3281.1	3530.2	3560.9	3631.7
30°	2890.6	2866.0	2835.2	2739.9	2632.3	2672.2	3016.7	3068.9	3148.9
32.5°	2232.5	2217.1	2207.9	2121.8	2026.5	2158.7	2552.3	2620.0	2699.9
35°	1685.1	1651.3	1675.9	1611.3	1525.2	1691.3	2124.9	2183.3	2247.9
37.5°	1242.3	1217.7	1239.3	1193.1	1116.3	1297.7	1706.7	1743.6	1786.6
40°	891.8	870.2	888.7	861.0	799.5	968.7	1337.7	1377.6	1396.1
42.5°	633.5	596.6	615.0	593.5	562.7	728.8	1051.7	1088.6	1094.7
45°	399.8	387.5	399.8	387.5	381.3	541.2	830.3	864.1	879.5
47.5°	242.9	227.6	227.6	221.4	227.6	399.8	685.7	734.9	759.5
50°	138.4	132.2	129.2	126.1	138.4	313.7	593.5	648.8	679.6
52.5°	92.3	89.2	89.2	86.1	101.5	264.5	535.1	584.3	615.0
55°	67.7	64.6	64.6	64.6	80.0	227.6	492.0	532.0	559.7
57.5°	52.3	52.3	52.3	49.2	67.7	193.7	439.7	461.3	482.8
60°	43.1	40.0	40.0	40.0	55.4	166.1	378.2	387.5	399.8
62.5°	33.8	33.8	33.8	33.8	46.1	147.6	326.0	326.0	332.1
65°	30.8	27.7	27.7	27.7	40.0	129.2	273.7	270.6	276.8
67.5°	24.6	24.6	24.6	24.6	33.8	110.7	224.5	221.4	227.6
70°	21.5	21.5	21.5	21.5	27.7	92.3	181.4	178.4	184.5
72.5°	18.5	18.5	18.5	18.5	24.6	76.9	144.5	144.5	147.6
75°	15.4	15.4	15.4	15.4	21.5	58.4	116.9	116.9	119.9
77.5°	12.3	12.3	12.3	12.3	15.4	46.1	89.2	86.1	86.1
80°	6.2	9.2	9.2	9.2	12.3	33.8	64.6	58.4	58.4
82.5°	3.1	6.2	6.2	6.2	12.3	24.6	43.1	40.0	40.0
85°	3.1	3.1	3.1	9.2	12.3	18.5	27.7	27.7	27.7
87.5°	0.0	3.1	6.2	12.3	15.4	15.4	18.5	15.4	15.4
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)