

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: P800058

Luminaire Tested: **LD6C70D010 EU6709040 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P800058
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 6LBMDSWWH
Description: 6 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

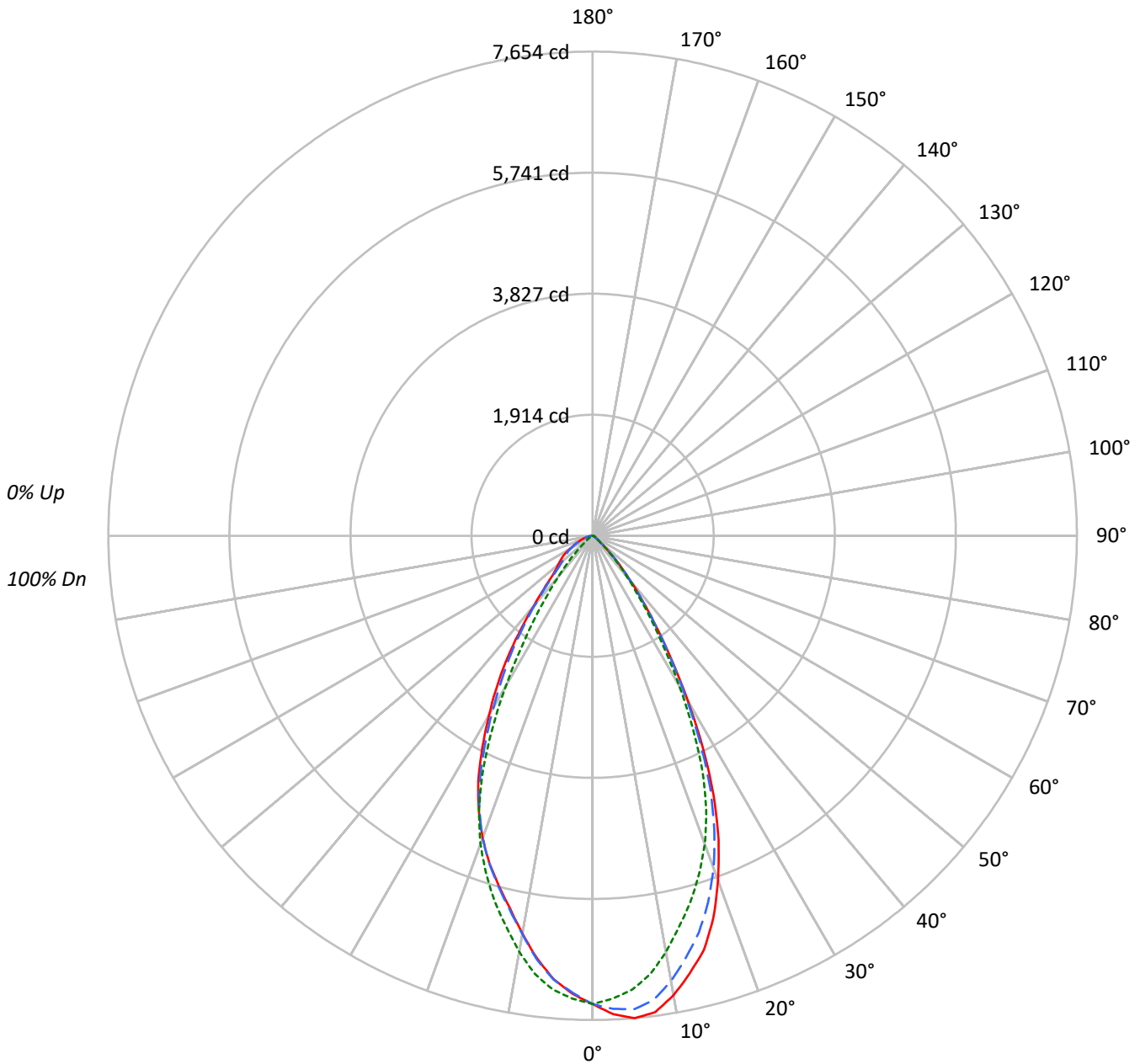
Lumens per Lamp: N/A
Luminaire Lumens: 6373.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P800058

CATALOG NUMBER: LD6C70D010 EU6709040 6LBMDSWWH

Luminous Intensity Polar Plot





TEST NUMBER: P800058

CATALOG NUMBER: LD6C70D010 EU6709040 6LBMDSWWH

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°	405790	405790	405790
5°	421218	396268	387304
10°	410447	371698	355343
15°	384945	339633	324956
20°	337937	302356	296581
25°	273318	248397	258638
30°	190010	173033	206994
35°	117109	105999	156219
40°	66274	59418	103752
45°	32182	30701	70806
50°	12255	12255	60186
55°	6719	7933	55549
60°	4901	6304	45512
65°	4138	5383	37280
70°	3590	4600	30710
75°	3389	4745	26370
80°	2020	4041	19163
85°	2013	8051	18052



TEST NUMBER: P800058

CATALOG NUMBER: LD6C70D010 EU6709040 6LBMDSWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.6	10.6
10°-20°	1703.2	26.7
20°-30°	1917.3	30.1
30°-40°	1187.2	18.6
40°-50°	472.8	7.4
50°-60°	215.2	3.4
60°-70°	123.7	1.9
70°-80°	58.8	0.9
80°-90°	17.2	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°	4298.1	67.4
0°-40°	5485.3	86.1
0°-60°	6173.4	96.9
0°-90°	6373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6373.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7402	7402	7402	7402	7402	
5°	7654	7514	7201	7044	7038	721
15°	6783	6489	5984	5742	5726	1877
25°	4519	4397	4107	4209	4276	2031
35°	1750	1740	1584	2207	2334	1125
45°	415	415	396	862	913	352
55°	70	67	83	511	581	70
65°	32	29	42	284	287	31
75°	16	16	22	121	124	16
85°	3	3	13	29	29	3
90°	0	0	0	0	0	



TEST NUMBER: P800058

CATALOG NUMBER: LD6C70D010 EU6709040 6LBMSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7402.2	7402.2	7402.2	7402.2	7402.2	7402.2	7402.2	7402.2	7402.2
2.5°	7571.4	7501.2	7485.2	7424.5	7322.3	7264.8	7229.7	7204.2	7248.9
5°	7654.4	7577.8	7513.9	7389.4	7201.0	7095.6	7044.5	7003.0	7038.1
7.5°	7593.8	7485.2	7399.0	7226.5	6987.0	6824.2	6753.9	6706.0	6737.9
10°	7373.4	7242.5	7143.5	6939.1	6677.3	6482.5	6396.3	6351.5	6383.5
12.5°	7086.0	6977.4	6827.4	6603.8	6322.8	6118.4	6054.6	6019.4	6032.2
15°	6782.7	6654.9	6488.9	6265.3	5984.3	5779.9	5741.6	5719.3	5725.7
17.5°	6342.0	6217.4	6073.7	5856.6	5597.9	5431.9	5431.9	5415.9	5425.5
20°	5792.7	5725.7	5585.1	5403.1	5182.8	5032.7	5080.6	5064.6	5083.8
22.5°	5198.8	5147.7	5026.3	4876.2	4691.0	4572.9	4678.2	4675.0	4700.6
25°	4518.6	4480.3	4397.2	4269.5	4106.6	4033.2	4208.8	4208.8	4275.9
27.5°	3768.1	3729.8	3672.3	3563.8	3429.6	3407.3	3666.0	3697.9	3771.3
30°	3001.7	2976.2	2944.3	2845.3	2733.5	2775.0	3132.7	3187.0	3270.0
32.5°	2318.4	2302.4	2292.8	2203.4	2104.4	2241.7	2650.5	2720.7	2803.8
35°	1749.9	1714.8	1740.4	1673.3	1583.9	1756.3	2206.6	2267.3	2334.3
37.5°	1290.1	1264.6	1286.9	1239.0	1159.2	1347.6	1772.3	1810.6	1855.3
40°	926.1	903.7	922.9	894.1	830.3	1005.9	1389.1	1430.6	1449.8
42.5°	657.8	619.5	638.7	616.3	584.4	756.8	1092.1	1130.4	1136.8
45°	415.1	402.4	415.1	402.4	396.0	562.0	862.2	897.3	913.3
47.5°	252.3	236.3	236.3	229.9	236.3	415.1	712.1	763.2	788.8
50°	143.7	137.3	134.1	130.9	143.7	325.7	616.3	673.8	705.7
52.5°	95.8	92.6	92.6	89.4	105.4	274.6	555.6	606.7	638.7
55°	70.3	67.1	67.1	67.1	83.0	236.3	510.9	552.4	581.2
57.5°	54.3	54.3	54.3	51.1	70.3	201.2	456.6	479.0	501.4
60°	44.7	41.5	41.5	41.5	57.5	172.4	392.8	402.4	415.1
62.5°	35.1	35.1	35.1	35.1	47.9	153.3	338.5	338.5	344.9
65°	31.9	28.7	28.7	28.7	41.5	134.1	284.2	281.0	287.4
67.5°	25.5	25.5	25.5	25.5	35.1	115.0	233.1	229.9	236.3
70°	22.4	22.4	22.4	22.4	28.7	95.8	188.4	185.2	191.6
72.5°	19.2	19.2	19.2	19.2	25.5	79.8	150.1	150.1	153.3
75°	16.0	16.0	16.0	16.0	22.4	60.7	121.3	121.3	124.5
77.5°	12.8	12.8	12.8	12.8	16.0	47.9	92.6	89.4	89.4
80°	6.4	9.6	9.6	9.6	12.8	35.1	67.1	60.7	60.7
82.5°	3.2	6.4	6.4	6.4	12.8	25.5	44.7	41.5	41.5
85°	3.2	3.2	3.2	9.6	12.8	19.2	28.7	28.7	28.7
87.5°	0.0	3.2	6.4	12.8	16.0	16.0	19.2	16.0	16.0
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)