

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: P840478

Luminaire Tested: **LD6C05D010 EU6059040 6LBCSSQMW**

Issue Date: 5/25/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P840478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C05D010 EU6059040 6LBCSSQMW
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

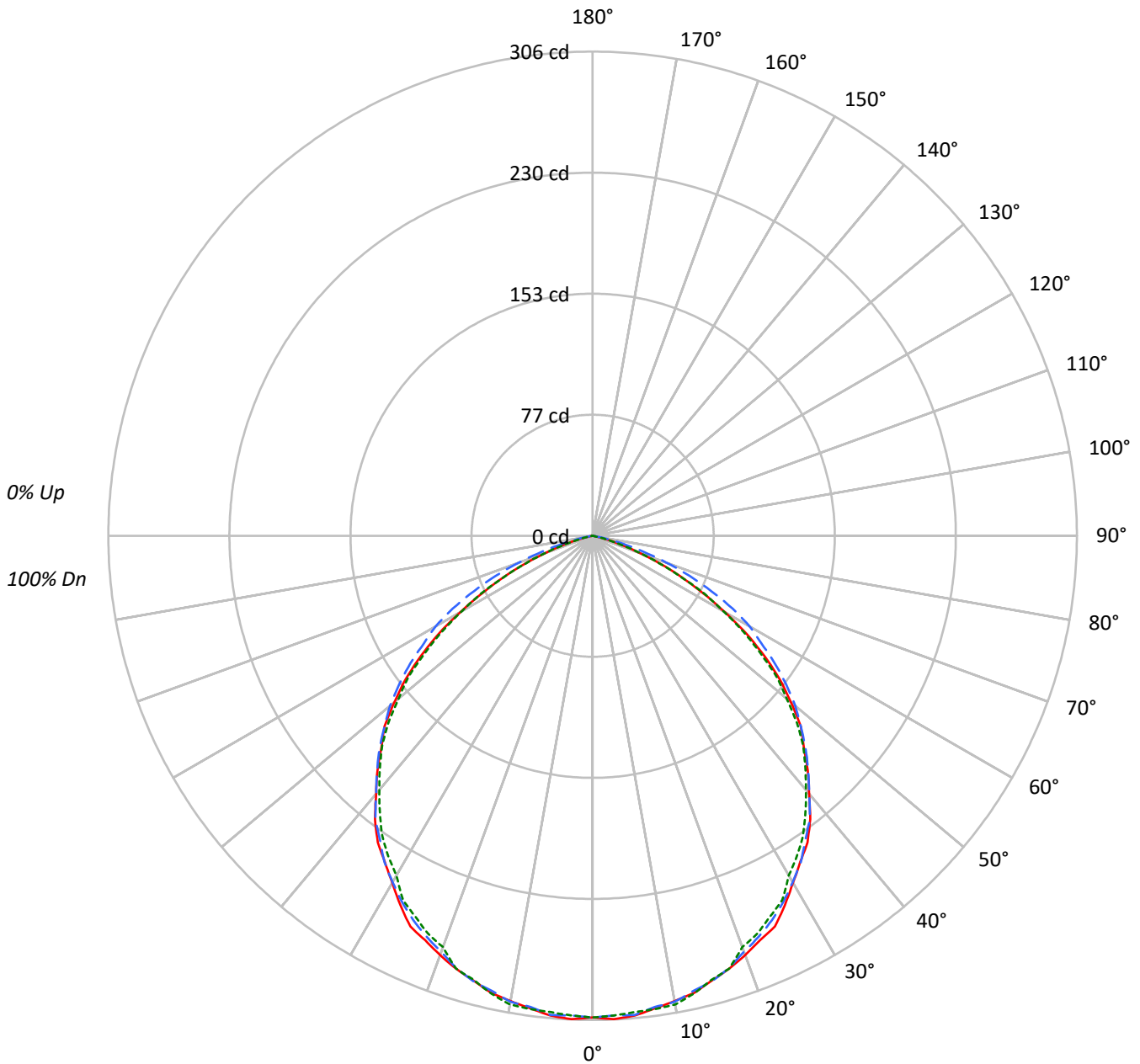
Lumens per Lamp: N/A
Luminaire Lumens: 735.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75								
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64								
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56								
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49								
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43								
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38								
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34								
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31								
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13106	13106	13106
5°	13156	13139	13061
10°	13055	13072	13151
15°	12971	12989	12949
20°	12921	12816	12674
25°	12946	12737	12608
30°	12588	12568	12325
35°	12436	12320	12178
40°	11960	11960	11786
45°	11484	11593	11453
50°	10945	11186	10711
55°	9946	10547	9706
60°	8310	9860	8198
65°	6357	8415	6316
70°	3953	6219	4016
75°	1497	3360	1414
80°	99	545	99
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	3.9
10°-20°	82.1	11.2
20°-30°	123.5	16.8
30°-40°	146.2	19.9
40°-50°	145.9	19.8
50°-60°	120.9	16.5
60°-70°	70.7	9.6
70°-80°	16.8	2.3
80°-90°	0.1	0.0
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°	234.4	31.9
0°-40°	380.6	51.8
0°-60°	647.4	88.1
0°-90°	735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	304	303	304	303	302	29
15°	291	291	291	290	290	82
25°	272	269	268	267	265	125
35°	237	234	234	233	232	147
45°	189	189	190	188	188	146
55°	132	137	140	137	129	118
65°	62	70	83	70	62	62
75°	9	13	20	13	8	12
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4
2.5°	305.8	304.0	305.3	302.6	304.4	302.6	303.1	302.2	304.0	303.5	303.1
5°	304.4	304.9	304.0	304.9	303.5	302.2	303.5	302.6	299.9	304.0	303.1
7.5°	301.3	301.7	300.8	302.2	301.3	299.5	303.1	300.4	299.9	300.4	302.2
10°	298.6	299.5	299.0	298.6	299.0	299.0	298.1	296.8	298.1	299.0	298.6
12.5°	295.9	297.2	296.3	295.5	294.6	295.0	295.9	293.7	293.7	294.6	297.2
15°	291.0	291.9	292.3	290.5	290.5	291.0	292.8	289.2	291.0	291.4	291.9
17.5°	286.9	287.4	287.4	286.0	286.9	285.6	286.9	285.1	286.9	286.5	287.4
20°	282.0	282.9	282.0	282.0	281.1	281.5	281.5	281.5	280.2	279.7	280.6
22.5°	276.6	276.6	275.7	276.6	275.7	275.2	277.5	273.9	277.5	274.3	277.0
25°	272.5	270.3	269.0	268.5	270.3	268.5	269.4	268.1	269.0	268.1	268.5
27.5°	263.1	261.8	261.3	261.8	261.8	261.3	263.1	258.2	261.3	260.9	260.9
30°	253.2	253.2	254.1	253.2	254.1	252.8	254.6	250.6	253.2	252.8	253.2
32.5°	244.3	244.7	244.7	245.6	244.3	244.7	244.7	243.4	244.3	244.7	243.8
35°	236.6	234.4	234.4	234.4	234.4	234.4	235.3	233.9	235.3	234.4	234.4
37.5°	225.9	223.6	223.6	223.2	225.4	224.1	226.3	224.5	224.5	225.4	225.4
40°	212.8	213.7	212.4	214.2	213.7	211.9	216.0	213.3	215.1	212.8	214.6
42.5°	201.2	201.6	201.2	200.7	202.5	202.1	203.8	202.1	201.6	201.6	204.7
45°	188.6	188.6	188.6	189.9	188.6	189.0	190.8	189.9	190.8	190.4	193.5
47.5°	178.3	176.0	175.6	178.3	177.8	178.3	178.3	178.7	179.2	178.3	179.6
50°	163.4	162.5	162.5	163.0	163.4	164.3	165.7	166.6	165.7	167.0	167.5
52.5°	149.1	148.2	148.6	150.4	151.3	150.9	153.1	153.6	153.1	154.0	154.0
55°	132.5	131.6	132.9	135.2	136.5	137.8	140.1	138.3	140.1	140.5	141.0
57.5°	115.4	115.0	115.4	117.6	119.0	122.1	125.7	125.7	127.5	126.2	127.5
60°	96.5	96.5	98.3	99.7	103.3	105.5	109.1	110.9	112.7	114.5	113.6
62.5°	78.6	79.0	80.4	83.5	85.8	88.9	92.9	94.7	97.9	99.7	98.8
65°	62.4	62.4	63.3	66.0	68.2	72.3	75.9	79.9	81.7	82.6	83.1
67.5°	46.7	46.2	48.0	49.8	52.1	56.1	60.2	62.4	65.6	66.5	66.0
70°	31.4	31.9	32.8	34.6	37.3	40.4	44.9	46.7	48.5	49.4	48.5
72.5°	19.8	19.8	20.2	22.0	23.8	26.0	29.2	31.0	33.2	33.7	32.8
75°	9.0	9.0	9.9	10.8	12.1	13.9	16.2	17.5	18.9	20.2	20.2
77.5°	1.8	2.2	2.7	2.7	3.6	4.9	6.3	7.6	9.0	9.0	9.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	2.2	2.2	2.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4
2.5°	304.4	307.1	304.4	303.1	304.9	304.4	303.1	303.5
5°	303.1	304.0	304.9	301.3	303.5	304.0	303.1	302.2
7.5°	301.7	302.2	301.7	300.8	300.8	300.8	301.7	301.7
10°	301.3	299.9	297.7	296.3	297.7	297.7	297.2	300.8
12.5°	295.5	297.2	295.9	293.2	295.9	295.5	295.5	296.3
15°	291.0	291.0	291.9	288.3	290.1	289.6	289.6	290.5
17.5°	286.5	286.5	286.0	285.1	284.7	286.0	284.7	286.9
20°	280.2	281.1	283.8	279.3	280.6	279.3	279.3	276.6
22.5°	272.5	277.0	274.8	274.3	273.9	274.3	275.2	272.1
25°	267.6	267.6	268.5	265.8	265.8	266.7	266.3	265.4
27.5°	260.9	260.4	260.0	259.1	261.3	259.5	259.5	259.5
30°	251.5	252.8	252.4	250.1	252.8	251.9	250.6	247.9
32.5°	243.4	245.2	242.5	242.0	241.6	242.0	242.5	240.2
35°	233.5	233.9	233.9	232.1	232.6	232.1	231.2	231.7
37.5°	224.5	224.1	221.8	220.9	221.4	221.4	221.8	220.9
40°	211.9	213.3	213.3	210.1	211.0	210.1	210.1	209.7
42.5°	201.6	202.1	200.7	199.4	199.4	198.9	198.0	198.9
45°	190.8	190.4	189.0	187.7	187.7	187.2	186.3	188.1
47.5°	178.7	177.8	177.4	175.6	175.6	172.9	173.3	175.1
50°	166.6	165.7	163.9	163.0	161.6	160.3	159.9	159.9
52.5°	152.2	152.2	150.4	148.6	148.2	147.3	146.4	146.8
55°	139.6	139.6	138.3	135.2	133.4	131.1	129.8	129.3
57.5°	125.3	124.4	121.7	118.1	116.3	114.5	113.1	113.1
60°	110.9	108.7	106.0	102.8	99.7	96.5	95.6	95.2
62.5°	95.2	92.9	88.0	84.4	82.2	80.4	78.6	79.9
65°	79.5	76.3	71.8	68.2	66.0	63.3	62.0	62.0
67.5°	62.9	59.7	55.2	51.6	49.4	47.6	45.8	45.8
70°	46.2	44.0	40.0	36.8	35.0	32.3	31.9	31.9
72.5°	31.4	28.7	25.6	23.4	21.6	19.8	18.9	18.4
75°	17.5	15.7	13.5	12.1	10.3	9.4	8.5	8.5
77.5°	7.2	5.8	4.5	3.6	2.7	2.2	1.8	2.2
80°	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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)