

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: P840469

Luminaire Tested: **LD6C05D010 EU6059027 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: P840469
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 EU6059027 6LBCSSQMW
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

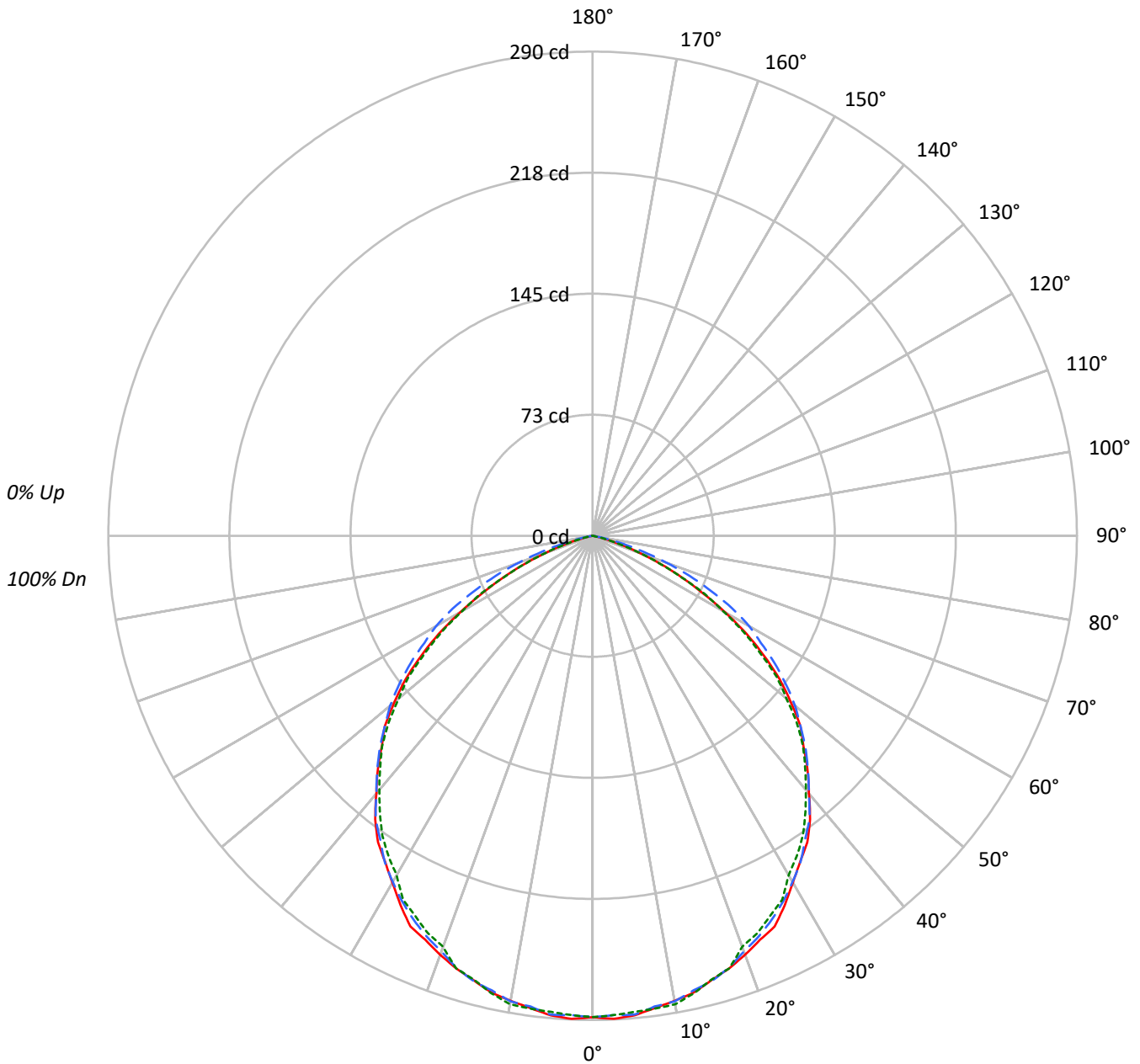
Lumens per Lamp: N/A
Luminaire Lumens: 696.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75				75				
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64				
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56				56				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38				
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12413	12413	12413
5°	12460	12443	12370
10°	12364	12381	12456
15°	12280	12303	12262
20°	12234	12137	12000
25°	12261	12057	11938
30°	11922	11902	11668
35°	11779	11663	11532
40°	11325	11325	11162
45°	10875	10978	10851
50°	10369	10597	10141
55°	9413	9991	9195
60°	7871	9334	7759
65°	6021	7967	5980
70°	3751	5891	3802
75°	1414	3177	1347
80°	99	521	99
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	3.9
10°-20°	77.7	11.2
20°-30°	117.0	16.8
30°-40°	138.4	19.9
40°-50°	138.1	19.8
50°-60°	114.5	16.5
60°-70°	66.9	9.6
70°-80°	15.9	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°	222.0	31.9
0°-40°	360.4	51.8
0°-60°	613.0	88.1
0°-90°	696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	288	287	288	287	286	27
15°	276	275	276	275	275	78
25°	258	255	254	253	251	118
35°	224	222	222	221	219	139
45°	179	179	180	178	178	138
55°	125	130	133	130	122	111
65°	59	66	78	66	59	59
75°	8	12	19	12	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°	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3
2.5°	289.6	287.9	289.1	286.6	288.3	286.6	287.0	286.2	287.9	287.4	287.0
5°	288.3	288.7	287.9	288.7	287.4	286.2	287.4	286.6	284.0	287.9	287.0
7.5°	285.3	285.7	284.9	286.2	285.3	283.6	287.0	284.4	284.0	284.4	286.2
10°	282.8	283.6	283.2	282.8	283.2	283.2	282.3	281.1	282.3	283.2	282.8
12.5°	280.2	281.5	280.6	279.8	278.9	279.3	280.2	278.1	278.1	278.9	281.5
15°	275.5	276.4	276.8	275.1	275.1	275.5	277.2	273.8	275.5	276.0	276.4
17.5°	271.7	272.1	272.1	270.8	271.7	270.4	271.7	270.0	271.7	271.3	272.1
20°	267.0	267.9	267.0	267.0	266.2	266.6	266.6	266.6	265.3	264.9	265.7
22.5°	261.9	261.9	261.1	261.9	261.1	260.6	262.8	259.4	262.8	259.8	262.3
25°	258.1	256.0	254.7	254.3	256.0	254.3	255.1	253.8	254.7	253.8	254.3
27.5°	249.2	247.9	247.5	247.9	247.9	247.5	249.2	244.5	247.5	247.0	247.0
30°	239.8	239.8	240.7	239.8	240.7	239.4	241.1	237.3	239.8	239.4	239.8
32.5°	231.3	231.7	231.7	232.6	231.3	231.7	231.7	230.5	231.3	231.7	230.9
35°	224.1	221.9	221.9	221.9	221.9	221.9	222.8	221.5	222.8	221.9	221.9
37.5°	213.9	211.8	211.8	211.3	213.4	212.2	214.3	212.6	212.6	213.4	213.4
40°	201.5	202.4	201.1	202.8	202.4	200.7	204.5	202.0	203.7	201.5	203.2
42.5°	190.5	190.9	190.5	190.1	191.8	191.3	193.0	191.3	190.9	190.9	193.9
45°	178.6	178.6	178.6	179.9	178.6	179.0	180.7	179.9	180.7	180.3	183.3
47.5°	168.8	166.7	166.3	168.8	168.4	168.8	168.8	169.2	169.6	168.8	170.1
50°	154.8	153.9	153.9	154.4	154.8	155.6	156.9	157.7	156.9	158.2	158.6
52.5°	141.2	140.3	140.7	142.4	143.3	142.9	145.0	145.4	145.0	145.8	145.8
55°	125.4	124.6	125.9	128.0	129.3	130.5	132.7	131.0	132.7	133.1	133.5
57.5°	109.3	108.9	109.3	111.4	112.7	115.7	119.0	119.0	120.8	119.5	120.8
60°	91.4	91.4	93.1	94.4	97.8	99.9	103.3	105.0	106.7	108.4	107.6
62.5°	74.4	74.8	76.1	79.1	81.2	84.2	88.0	89.7	92.7	94.4	93.5
65°	59.1	59.1	60.0	62.5	64.6	68.4	71.9	75.7	77.4	78.2	78.7
67.5°	44.2	43.8	45.5	47.2	49.3	53.2	57.0	59.1	62.1	62.9	62.5
70°	29.8	30.2	31.0	32.7	35.3	38.3	42.5	44.2	45.9	46.8	45.9
72.5°	18.7	18.7	19.1	20.8	22.5	24.7	27.6	29.3	31.5	31.9	31.0
75°	8.5	8.5	9.4	10.2	11.5	13.2	15.3	16.6	17.9	19.1	19.1
77.5°	1.7	2.1	2.6	2.6	3.4	4.7	6.0	7.2	8.5	8.5	8.5
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	2.1	2.1	2.1
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°	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3
2.5°	288.3	290.8	288.3	287.0	288.7	288.3	287.0	287.4
5°	287.0	287.9	288.7	285.3	287.4	287.9	287.0	286.2
7.5°	285.7	286.2	285.7	284.9	284.9	284.9	285.7	285.7
10°	285.3	284.0	281.9	280.6	281.9	281.9	281.5	284.9
12.5°	279.8	281.5	280.2	277.6	280.2	279.8	279.8	280.6
15°	275.5	275.5	276.4	273.0	274.7	274.3	274.3	275.1
17.5°	271.3	271.3	270.8	270.0	269.6	270.8	269.6	271.7
20°	265.3	266.2	268.7	264.5	265.7	264.5	264.5	261.9
22.5°	258.1	262.3	260.2	259.8	259.4	259.8	260.6	257.7
25°	253.4	253.4	254.3	251.7	251.7	252.6	252.1	251.3
27.5°	247.0	246.6	246.2	245.3	247.5	245.8	245.8	245.8
30°	238.1	239.4	239.0	236.8	239.4	238.5	237.3	234.7
32.5°	230.5	232.2	229.6	229.2	228.8	229.2	229.6	227.5
35°	221.1	221.5	221.5	219.8	220.2	219.8	219.0	219.4
37.5°	212.6	212.2	210.0	209.2	209.6	209.6	210.0	209.2
40°	200.7	202.0	202.0	199.0	199.8	199.0	199.0	198.6
42.5°	190.9	191.3	190.1	188.8	188.8	188.4	187.5	188.4
45°	180.7	180.3	179.0	177.7	177.7	177.3	176.4	178.2
47.5°	169.2	168.4	168.0	166.3	166.3	163.7	164.1	165.8
50°	157.7	156.9	155.2	154.4	153.1	151.8	151.4	151.4
52.5°	144.1	144.1	142.4	140.7	140.3	139.5	138.6	139.0
55°	132.2	132.2	131.0	128.0	126.3	124.2	122.9	122.5
57.5°	118.6	117.8	115.2	111.8	110.1	108.4	107.1	107.1
60°	105.0	102.9	100.3	97.4	94.4	91.4	90.6	90.1
62.5°	90.1	88.0	83.3	79.9	77.8	76.1	74.4	75.7
65°	75.3	72.3	68.0	64.6	62.5	60.0	58.7	58.7
67.5°	59.5	56.5	52.3	48.9	46.8	45.1	43.4	43.4
70°	43.8	41.7	37.8	34.9	33.2	30.6	30.2	30.2
72.5°	29.8	27.2	24.2	22.1	20.4	18.7	17.9	17.4
75°	16.6	14.9	12.8	11.5	9.8	8.9	8.1	8.1
77.5°	6.8	5.5	4.2	3.4	2.6	2.1	1.7	2.1
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)