

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: P840474

Luminaire Tested: **LD6C05D010 EU6059035 6LBCSSQMMS**

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: P840474
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 EU6059035 6LBCSSQMMS
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

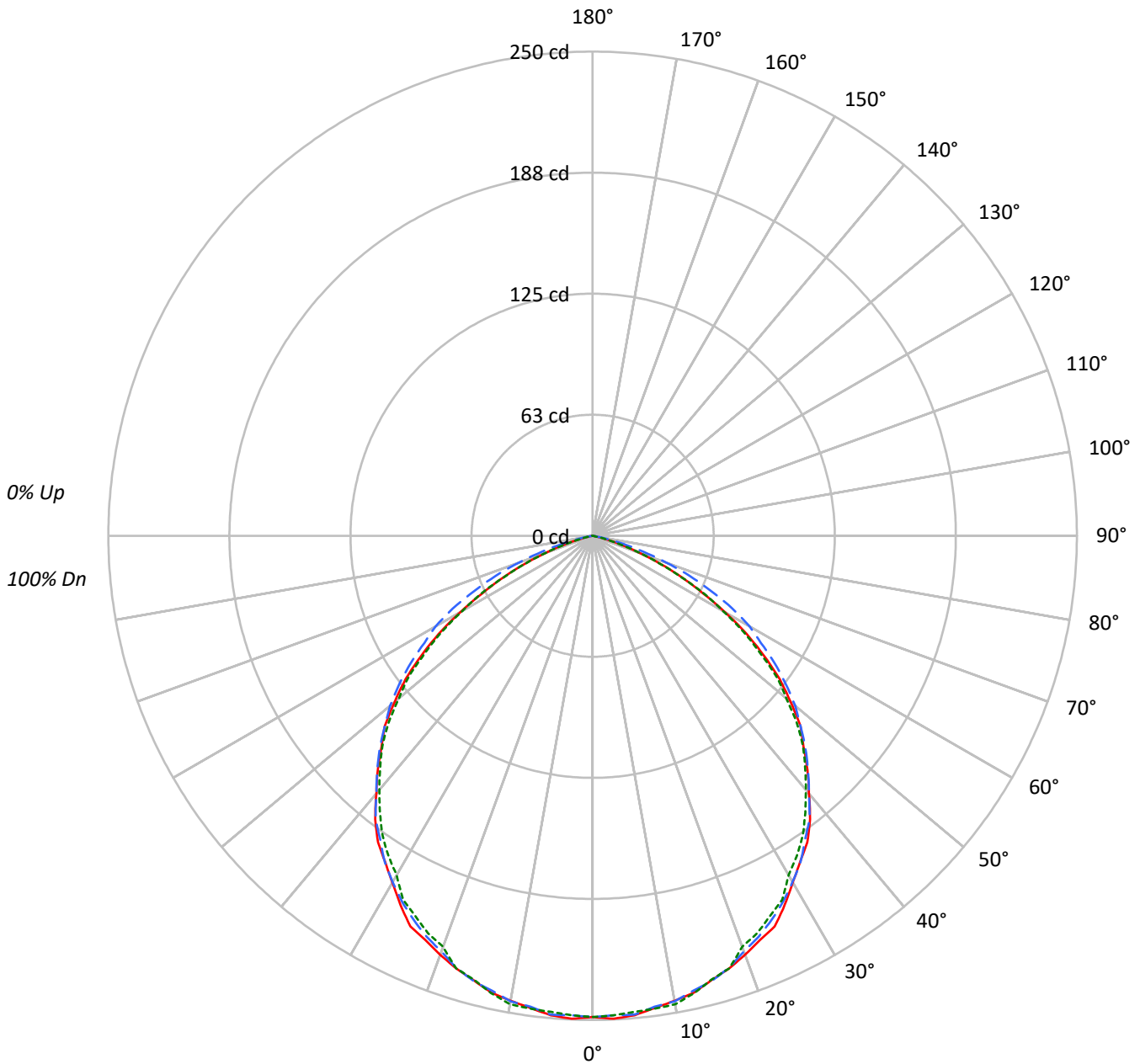
Lumens per Lamp: N/A
Luminaire Lumens: 600.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	10699	10699	10699
5°	10740	10727	10662
10°	10659	10672	10738
15°	10586	10604	10573
20°	10548	10465	10346
25°	10570	10394	10290
30°	10276	10261	10058
35°	10155	10055	9939
40°	9763	9763	9622
45°	9377	9462	9353
50°	8935	9136	8741
55°	8115	8610	7927
60°	6786	8051	6691
65°	5196	6867	5155
70°	3235	5073	3273
75°	1214	2745	1164
80°	99	446	99
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	3.9
10°-20°	67.0	11.2
20°-30°	100.9	16.8
30°-40°	119.3	19.9
40°-50°	119.1	19.8
50°-60°	98.7	16.5
60°-70°	57.7	9.6
70°-80°	13.7	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°	191.4	31.9
0°-40°	310.7	51.8
0°-60°	528.5	88.1
0°-90°	600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	248	248	248	248	248	
5°	248	247	248	247	247	24
15°	238	237	238	237	237	67
25°	222	220	219	218	217	102
35°	193	191	191	190	189	120
45°	154	154	155	154	154	119
55°	108	112	115	112	106	96
65°	51	57	67	57	51	51
75°	7	11	16	10	7	10
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°	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
2.5°	249.6	248.2	249.2	247.1	248.5	247.1	247.4	246.7	248.2	247.8	247.4
5°	248.5	248.9	248.2	248.9	247.8	246.7	247.8	247.1	244.9	248.2	247.4
7.5°	245.9	246.3	245.6	246.7	245.9	244.5	247.4	245.2	244.9	245.2	246.7
10°	243.8	244.5	244.1	243.8	244.1	244.1	243.4	242.3	243.4	244.1	243.8
12.5°	241.6	242.6	241.9	241.2	240.5	240.8	241.6	239.7	239.7	240.5	242.6
15°	237.5	238.3	238.6	237.2	237.2	237.5	239.0	236.0	237.5	237.9	238.3
17.5°	234.2	234.6	234.6	233.5	234.2	233.1	234.2	232.7	234.2	233.9	234.6
20°	230.2	230.9	230.2	230.2	229.5	229.8	229.8	229.8	228.7	228.4	229.1
22.5°	225.8	225.8	225.1	225.8	225.1	224.7	226.5	223.6	226.5	224.0	226.2
25°	222.5	220.7	219.6	219.2	220.7	219.2	219.9	218.8	219.6	218.8	219.2
27.5°	214.8	213.7	213.3	213.7	213.7	213.3	214.8	210.8	213.3	213.0	213.0
30°	206.7	206.7	207.5	206.7	207.5	206.4	207.8	204.5	206.7	206.4	206.7
32.5°	199.4	199.8	199.8	200.5	199.4	199.8	199.8	198.7	199.4	199.8	199.0
35°	193.2	191.3	191.3	191.3	191.3	191.3	192.1	191.0	192.1	191.3	191.3
37.5°	184.4	182.5	182.5	182.2	184.0	182.9	184.7	183.3	183.3	184.0	184.0
40°	173.7	174.5	173.4	174.8	174.5	173.0	176.3	174.1	175.6	173.7	175.2
42.5°	164.2	164.6	164.2	163.8	165.3	164.9	166.4	164.9	164.6	164.6	167.1
45°	154.0	154.0	154.0	155.0	154.0	154.3	155.8	155.0	155.8	155.4	158.0
47.5°	145.5	143.7	143.3	145.5	145.2	145.5	145.5	145.9	146.2	145.5	146.6
50°	133.4	132.7	132.7	133.1	133.4	134.2	135.3	136.0	135.3	136.4	136.7
52.5°	121.7	121.0	121.3	122.8	123.5	123.2	125.0	125.4	125.0	125.7	125.7
55°	108.1	107.4	108.5	110.3	111.4	112.5	114.4	112.9	114.4	114.7	115.1
57.5°	94.2	93.8	94.2	96.0	97.1	99.7	102.6	102.6	104.1	103.0	104.1
60°	78.8	78.8	80.3	81.4	84.3	86.1	89.1	90.5	92.0	93.5	92.7
62.5°	64.1	64.5	65.6	68.2	70.0	72.6	75.9	77.3	79.9	81.4	80.6
65°	51.0	51.0	51.7	53.9	55.7	59.0	61.9	65.2	66.7	67.4	67.8
67.5°	38.1	37.8	39.2	40.7	42.5	45.8	49.1	51.0	53.5	54.3	53.9
70°	25.7	26.0	26.8	28.2	30.4	33.0	36.7	38.1	39.6	40.3	39.6
72.5°	16.1	16.1	16.5	18.0	19.4	21.3	23.8	25.3	27.1	27.5	26.8
75°	7.3	7.3	8.1	8.8	9.9	11.4	13.2	14.3	15.4	16.5	16.5
77.5°	1.5	1.8	2.2	2.2	2.9	4.0	5.1	6.2	7.3	7.3	7.3
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.8	1.8	1.8
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°	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
2.5°	248.5	250.7	248.5	247.4	248.9	248.5	247.4	247.8
5°	247.4	248.2	248.9	245.9	247.8	248.2	247.4	246.7
7.5°	246.3	246.7	246.3	245.6	245.6	245.6	246.3	246.3
10°	245.9	244.9	243.0	241.9	243.0	243.0	242.6	245.6
12.5°	241.2	242.6	241.6	239.3	241.6	241.2	241.2	241.9
15°	237.5	237.5	238.3	235.3	236.8	236.4	236.4	237.2
17.5°	233.9	233.9	233.5	232.7	232.4	233.5	232.4	234.2
20°	228.7	229.5	231.7	228.0	229.1	228.0	228.0	225.8
22.5°	222.5	226.2	224.3	224.0	223.6	224.0	224.7	222.1
25°	218.5	218.5	219.2	217.0	217.0	217.7	217.4	216.6
27.5°	213.0	212.6	212.2	211.5	213.3	211.9	211.9	211.9
30°	205.3	206.4	206.0	204.2	206.4	205.6	204.5	202.3
32.5°	198.7	200.1	197.9	197.6	197.2	197.6	197.9	196.1
35°	190.6	191.0	191.0	189.5	189.9	189.5	188.8	189.1
37.5°	183.3	182.9	181.1	180.3	180.7	180.7	181.1	180.3
40°	173.0	174.1	174.1	171.5	172.3	171.5	171.5	171.2
42.5°	164.6	164.9	163.8	162.7	162.7	162.4	161.6	162.4
45°	155.8	155.4	154.3	153.2	153.2	152.8	152.1	153.6
47.5°	145.9	145.2	144.8	143.3	143.3	141.1	141.5	142.9
50°	136.0	135.3	133.8	133.1	132.0	130.9	130.5	130.5
52.5°	124.3	124.3	122.8	121.3	121.0	120.2	119.5	119.9
55°	114.0	114.0	112.9	110.3	108.9	107.0	105.9	105.6
57.5°	102.3	101.5	99.3	96.4	94.9	93.5	92.4	92.4
60°	90.5	88.7	86.5	83.9	81.4	78.8	78.1	77.7
62.5°	77.7	75.9	71.8	68.9	67.1	65.6	64.1	65.2
65°	64.9	62.3	58.6	55.7	53.9	51.7	50.6	50.6
67.5°	51.3	48.7	45.1	42.1	40.3	38.8	37.4	37.4
70°	37.8	35.9	32.6	30.1	28.6	26.4	26.0	26.0
72.5°	25.7	23.5	20.9	19.1	17.6	16.1	15.4	15.0
75°	14.3	12.8	11.0	9.9	8.4	7.7	7.0	7.0
77.5°	5.9	4.8	3.7	2.9	2.2	1.8	1.5	1.8
80°	1.1	0.7	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)