

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: P840524

Luminaire Tested: **LD6C10D010 EU6109027 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: P840524
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: LD6C10D010 EU6109027 6LBCSSQMMS
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

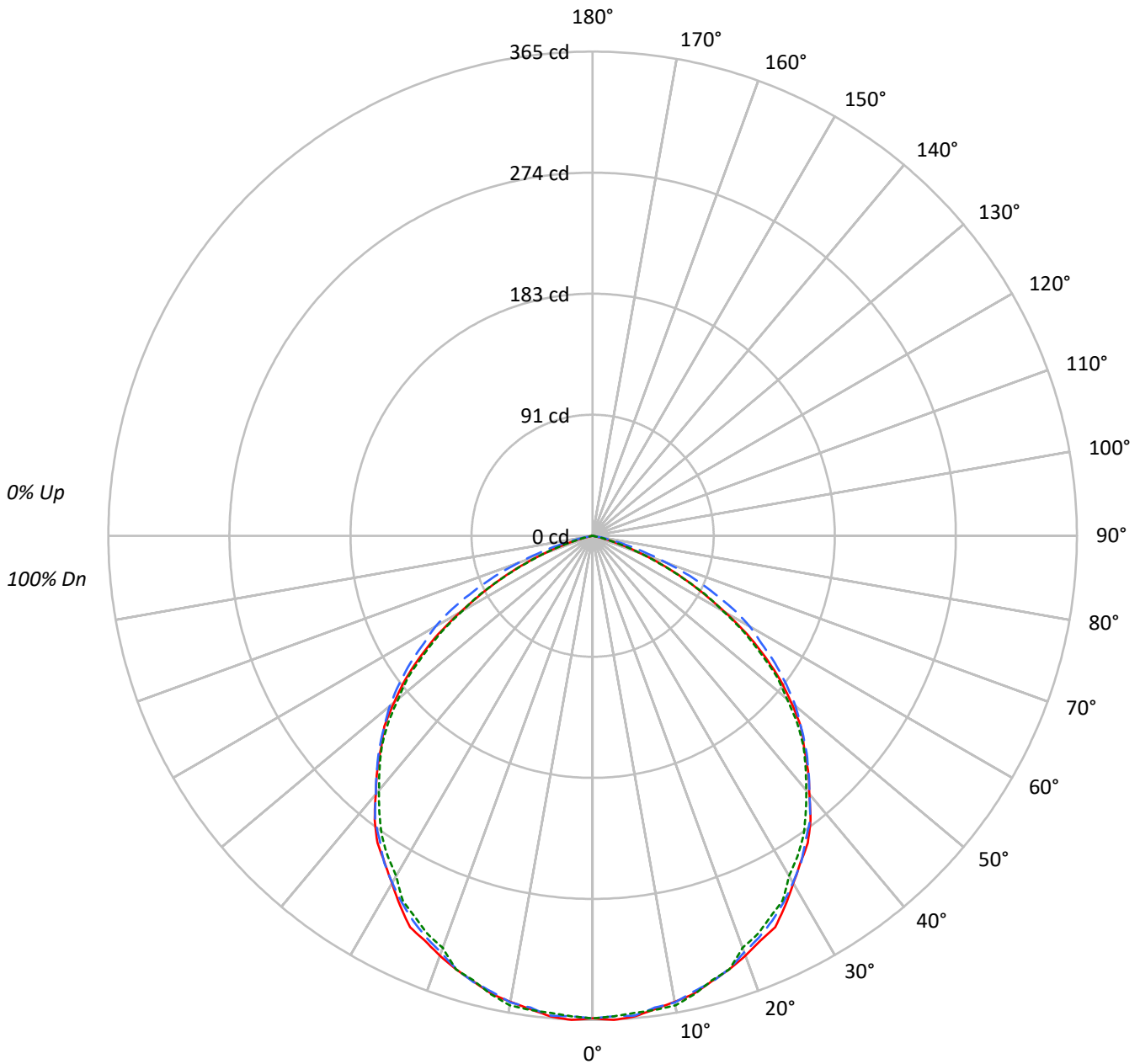
Lumens per Lamp: N/A
Luminaire Lumens: 878.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V):
Input Current (Ain): 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									
RC	80									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°	15659	15659	15659
5°	15719	15693	15602
10°	15595	15617	15713
15°	15494	15516	15467
20°	15432	15313	15139
25°	15468	15212	15060
30°	15039	15014	14721
35°	14859	14717	14549
40°	14287	14287	14079
45°	13718	13846	13682
50°	13075	13363	12794
55°	11875	12603	11598
60°	9929	11780	9791
65°	7600	10055	7539
70°	4733	7427	4796
75°	1780	4009	1697
80°	124	669	124
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	3.9
10°-20°	98.1	11.2
20°-30°	147.6	16.8
30°-40°	174.6	19.9
40°-50°	174.2	19.8
50°-60°	144.5	16.5
60°-70°	84.4	9.6
70°-80°	20.1	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°	280.1	31.9
0°-40°	454.6	51.8
0°-60°	773.3	88.1
0°-90°	878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	364	364	364	364	364	
5°	364	362	363	362	361	34
15°	348	347	348	346	347	98
25°	326	322	320	319	317	149
35°	283	280	280	278	277	176
45°	225	226	227	225	225	174
55°	158	164	168	163	154	140
65°	75	84	99	84	74	74
75°	11	16	24	15	10	15
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°	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7
2.5°	365.3	363.1	364.7	361.5	363.7	361.5	362.1	361.0	363.1	362.6	362.1
5°	363.7	364.2	363.1	364.2	362.6	361.0	362.6	361.5	358.3	363.1	362.1
7.5°	359.9	360.5	359.4	361.0	359.9	357.8	362.1	358.8	358.3	358.8	361.0
10°	356.7	357.8	357.2	356.7	357.2	357.2	356.1	354.5	356.1	357.2	356.7
12.5°	353.5	355.1	354.0	352.9	351.9	352.4	353.5	350.8	350.8	351.9	355.1
15°	347.6	348.6	349.2	347.0	347.0	347.6	349.7	345.4	347.6	348.1	348.6
17.5°	342.7	343.3	343.3	341.7	342.7	341.1	342.7	340.6	342.7	342.2	343.3
20°	336.8	337.9	336.8	336.8	335.8	336.3	336.3	336.3	334.7	334.2	335.2
22.5°	330.4	330.4	329.3	330.4	329.3	328.8	331.5	327.2	331.5	327.7	331.0
25°	325.6	322.9	321.3	320.7	322.9	320.7	321.8	320.2	321.3	320.2	320.7
27.5°	314.3	312.7	312.2	312.7	312.7	312.2	314.3	308.4	312.2	311.6	311.6
30°	302.5	302.5	303.6	302.5	303.6	302.0	304.1	299.3	302.5	302.0	302.5
32.5°	291.8	292.3	292.3	293.4	291.8	292.3	292.3	290.7	291.8	292.3	291.2
35°	282.7	280.0	280.0	280.0	280.0	280.0	281.1	279.5	281.1	280.0	280.0
37.5°	269.8	267.1	267.1	266.6	269.3	267.7	270.3	268.2	268.2	269.3	269.3
40°	254.2	255.3	253.7	255.8	255.3	253.2	258.0	254.8	256.9	254.2	256.4
42.5°	240.3	240.8	240.3	239.8	241.9	241.4	243.5	241.4	240.8	240.8	244.6
45°	225.3	225.3	225.3	226.9	225.3	225.8	228.0	226.9	228.0	227.4	231.2
47.5°	212.9	210.3	209.7	212.9	212.4	212.9	212.9	213.5	214.0	212.9	214.6
50°	195.2	194.2	194.2	194.7	195.2	196.3	197.9	199.0	197.9	199.5	200.1
52.5°	178.1	177.0	177.5	179.7	180.8	180.2	182.9	183.4	182.9	184.0	184.0
55°	158.2	157.2	158.8	161.5	163.1	164.7	167.3	165.2	167.3	167.9	168.4
57.5°	137.8	137.3	137.8	140.5	142.1	145.9	150.2	150.2	152.3	150.7	152.3
60°	115.3	115.3	117.5	119.1	123.4	126.1	130.3	132.5	134.6	136.8	135.7
62.5°	93.9	94.4	96.0	99.8	102.4	106.2	111.0	113.2	116.9	119.1	118.0
65°	74.6	74.6	75.6	78.8	81.5	86.3	90.7	95.5	97.6	98.7	99.2
67.5°	55.8	55.2	57.4	59.5	62.2	67.1	71.9	74.6	78.3	79.4	78.8
70°	37.6	38.1	39.2	41.3	44.5	48.3	53.6	55.8	57.9	59.0	57.9
72.5°	23.6	23.6	24.1	26.3	28.4	31.1	34.9	37.0	39.7	40.2	39.2
75°	10.7	10.7	11.8	12.9	14.5	16.6	19.3	20.9	22.5	24.1	24.1
77.5°	2.2	2.7	3.2	3.2	4.3	5.9	7.5	9.1	10.7	10.7	10.7
80°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6	2.7	2.7	2.7
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°	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7
2.5°	363.7	366.9	363.7	362.1	364.2	363.7	362.1	362.6
5°	362.1	363.1	364.2	359.9	362.6	363.1	362.1	361.0
7.5°	360.5	361.0	360.5	359.4	359.4	359.4	360.5	360.5
10°	359.9	358.3	355.6	354.0	355.6	355.6	355.1	359.4
12.5°	352.9	355.1	353.5	350.2	353.5	352.9	352.9	354.0
15°	347.6	347.6	348.6	344.4	346.5	346.0	346.0	347.0
17.5°	342.2	342.2	341.7	340.6	340.1	341.7	340.1	342.7
20°	334.7	335.8	339.0	333.6	335.2	333.6	333.6	330.4
22.5°	325.6	331.0	328.3	327.7	327.2	327.7	328.8	325.0
25°	319.7	319.7	320.7	317.5	317.5	318.6	318.1	317.0
27.5°	311.6	311.1	310.6	309.5	312.2	310.0	310.0	310.0
30°	300.4	302.0	301.5	298.8	302.0	300.9	299.3	296.1
32.5°	290.7	292.9	289.6	289.1	288.6	289.1	289.6	287.0
35°	278.9	279.5	279.5	277.3	277.8	277.3	276.2	276.8
37.5°	268.2	267.7	265.0	263.9	264.4	264.4	265.0	263.9
40°	253.2	254.8	254.8	251.0	252.1	251.0	251.0	250.5
42.5°	240.8	241.4	239.8	238.2	238.2	237.6	236.5	237.6
45°	228.0	227.4	225.8	224.2	224.2	223.7	222.6	224.7
47.5°	213.5	212.4	211.9	209.7	209.7	206.5	207.0	209.2
50°	199.0	197.9	195.8	194.7	193.1	191.5	191.0	191.0
52.5°	181.8	181.8	179.7	177.5	177.0	175.9	174.8	175.4
55°	166.8	166.8	165.2	161.5	159.3	156.6	155.0	154.5
57.5°	149.7	148.6	145.3	141.1	138.9	136.8	135.2	135.2
60°	132.5	129.8	126.6	122.8	119.1	115.3	114.2	113.7
62.5°	113.7	111.0	105.1	100.8	98.2	96.0	93.9	95.5
65°	94.9	91.2	85.8	81.5	78.8	75.6	74.0	74.0
67.5°	75.1	71.3	66.0	61.7	59.0	56.8	54.7	54.7
70°	55.2	52.6	47.7	44.0	41.8	38.6	38.1	38.1
72.5°	37.6	34.3	30.6	27.9	25.7	23.6	22.5	22.0
75°	20.9	18.8	16.1	14.5	12.3	11.3	10.2	10.2
77.5°	8.6	7.0	5.4	4.3	3.2	2.7	2.2	2.7
80°	1.6	1.1	0.5	0.5	0.5	0.5	0.5	0.5
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)