

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: P840493

Luminaire Tested: **LD6C08D010 EU6089035 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: P840493
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: LD6C08D010 EU6089035 6LBCSSQMMS
Description: 6 INCH 800 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

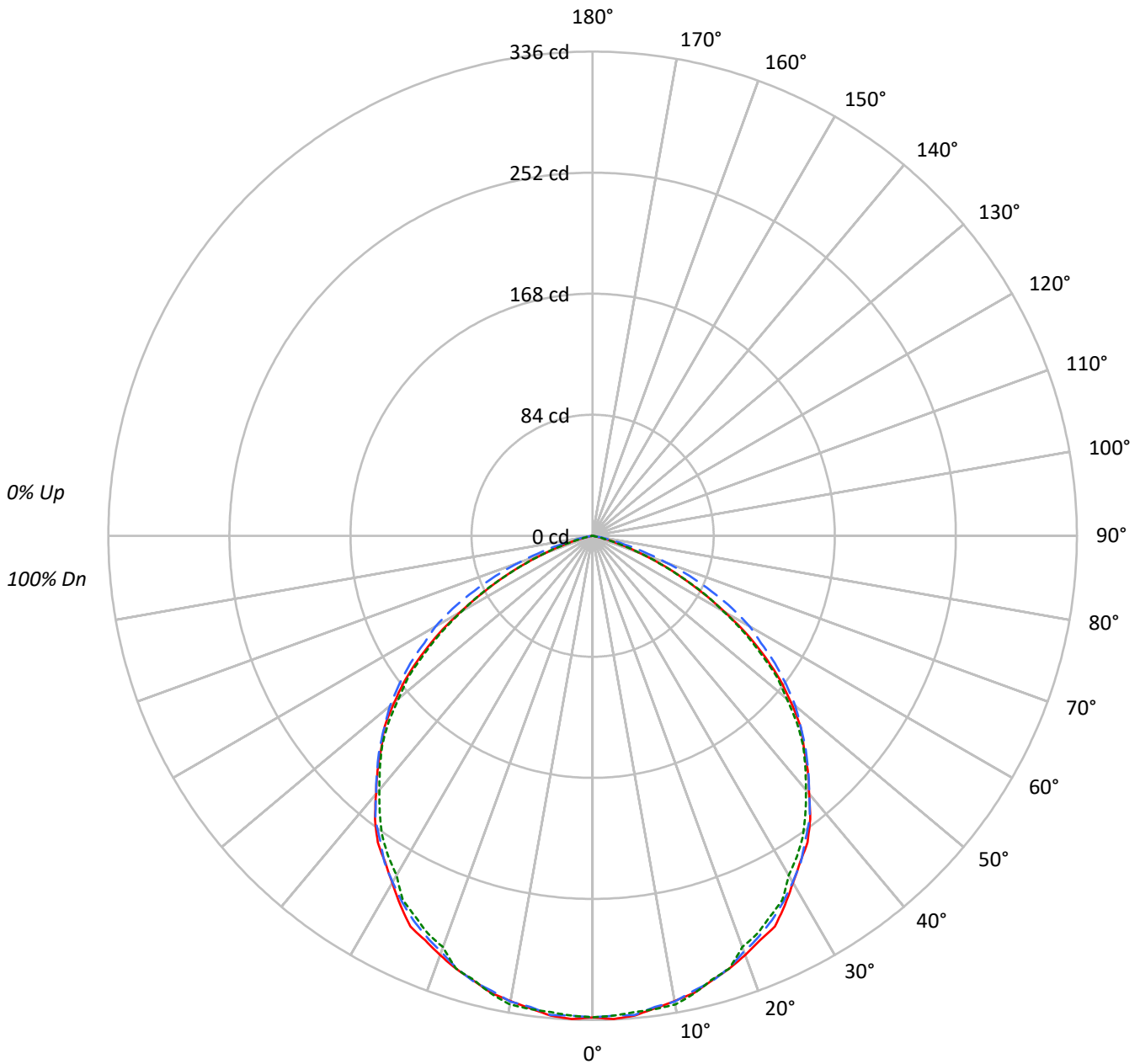
Lumens per Lamp: N/A
Luminaire Lumens: 807.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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				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°	14389	14389	14389
5°	14444	14427	14340
10°	14336	14353	14441
15°	14242	14264	14219
20°	14186	14071	13915
25°	14214	13981	13843
30°	13821	13801	13528
35°	13655	13524	13372
40°	13135	13135	12938
45°	12610	12726	12580
50°	12023	12285	11755
55°	10914	11583	10659
60°	9128	10824	8999
65°	6979	9240	6928
70°	4343	6823	4406
75°	1647	3693	1564
80°	124	620	124
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	3.9
10°-20°	90.1	11.2
20°-30°	135.6	16.8
30°-40°	160.5	19.9
40°-50°	160.1	19.8
50°-60°	132.8	16.5
60°-70°	77.6	9.6
70°-80°	18.5	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°	257.4	31.9
0°-40°	417.9	51.8
0°-60°	710.8	88.1
0°-90°	807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	334	334	334	334	334	
5°	334	333	334	333	332	32
15°	320	319	320	318	319	90
25°	299	296	294	293	291	137
35°	260	257	257	256	254	162
45°	207	207	209	207	207	160
55°	145	151	154	150	142	129
65°	68	77	91	77	68	68
75°	10	14	22	14	9	13
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°	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2
2.5°	335.7	333.8	335.2	332.3	334.2	332.3	332.8	331.8	333.8	333.3	332.8
5°	334.2	334.8	333.8	334.8	333.3	331.8	333.3	332.3	329.3	333.8	332.8
7.5°	330.8	331.3	330.3	331.8	330.8	328.8	332.8	329.8	329.3	329.8	331.8
10°	327.9	328.8	328.3	327.9	328.3	328.3	327.3	325.9	327.3	328.3	327.9
12.5°	324.9	326.4	325.4	324.4	323.4	323.9	324.9	322.4	322.4	323.4	326.4
15°	319.5	320.4	320.9	319.0	319.0	319.5	321.4	317.5	319.5	320.0	320.4
17.5°	315.0	315.5	315.5	314.0	315.0	313.5	315.0	313.0	315.0	314.5	315.5
20°	309.6	310.6	309.6	309.6	308.6	309.1	309.1	309.1	307.6	307.1	308.1
22.5°	303.7	303.7	302.7	303.7	302.7	302.2	304.7	300.7	304.7	301.2	304.2
25°	299.2	296.8	295.3	294.8	296.8	294.8	295.8	294.3	295.3	294.3	294.8
27.5°	288.9	287.4	286.9	287.4	287.4	286.9	288.9	283.5	286.9	286.4	286.4
30°	278.0	278.0	279.0	278.0	279.0	277.6	279.5	275.1	278.0	277.6	278.0
32.5°	268.2	268.7	268.7	269.7	268.2	268.7	268.7	267.2	268.2	268.7	267.7
35°	259.8	257.3	257.3	257.3	257.3	257.3	258.3	256.9	258.3	257.3	257.3
37.5°	248.0	245.5	245.5	245.0	247.5	246.0	248.5	246.5	246.5	247.5	247.5
40°	233.7	234.7	233.2	235.2	234.7	232.7	237.1	234.2	236.1	233.7	235.7
42.5°	220.9	221.4	220.9	220.4	222.3	221.9	223.8	221.9	221.4	221.4	224.8
45°	207.1	207.1	207.1	208.5	207.1	207.6	209.5	208.5	209.5	209.0	212.5
47.5°	195.7	193.3	192.8	195.7	195.2	195.7	195.7	196.2	196.7	195.7	197.2
50°	179.5	178.5	178.5	179.0	179.5	180.4	181.9	182.9	181.9	183.4	183.9
52.5°	163.7	162.7	163.2	165.1	166.1	165.7	168.1	168.6	168.1	169.1	169.1
55°	145.4	144.4	145.9	148.4	149.9	151.3	153.8	151.9	153.8	154.3	154.8
57.5°	126.7	126.2	126.7	129.2	130.6	134.1	138.0	138.0	140.0	138.5	140.0
60°	106.0	106.0	108.0	109.4	113.4	115.9	119.8	121.8	123.7	125.7	124.7
62.5°	86.3	86.8	88.2	91.7	94.2	97.6	102.0	104.0	107.5	109.4	108.5
65°	68.5	68.5	69.5	72.5	74.9	79.4	83.3	87.8	89.7	90.7	91.2
67.5°	51.3	50.8	52.8	54.7	57.2	61.6	66.1	68.5	72.0	73.0	72.5
70°	34.5	35.0	36.0	38.0	40.9	44.4	49.3	51.3	53.2	54.2	53.2
72.5°	21.7	21.7	22.2	24.1	26.1	28.6	32.0	34.0	36.5	37.0	36.0
75°	9.9	9.9	10.9	11.8	13.3	15.3	17.8	19.2	20.7	22.2	22.2
77.5°	2.0	2.5	3.0	3.0	3.9	5.4	6.9	8.4	9.9	9.9	9.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.5	2.5	2.5
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°	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2
2.5°	334.2	337.2	334.2	332.8	334.8	334.2	332.8	333.3
5°	332.8	333.8	334.8	330.8	333.3	333.8	332.8	331.8
7.5°	331.3	331.8	331.3	330.3	330.3	330.3	331.3	331.3
10°	330.8	329.3	326.9	325.4	326.9	326.9	326.4	330.3
12.5°	324.4	326.4	324.9	321.9	324.9	324.4	324.4	325.4
15°	319.5	319.5	320.4	316.5	318.5	318.0	318.0	319.0
17.5°	314.5	314.5	314.0	313.0	312.6	314.0	312.6	315.0
20°	307.6	308.6	311.6	306.7	308.1	306.7	306.7	303.7
22.5°	299.2	304.2	301.7	301.2	300.7	301.2	302.2	298.8
25°	293.8	293.8	294.8	291.9	291.9	292.9	292.3	291.4
27.5°	286.4	285.9	285.4	284.5	286.9	285.0	285.0	285.0
30°	276.1	277.6	277.1	274.6	277.6	276.6	275.1	272.1
32.5°	267.2	269.2	266.2	265.7	265.2	265.7	266.2	263.8
35°	256.4	256.9	256.9	254.9	255.4	254.9	253.9	254.4
37.5°	246.5	246.0	243.5	242.6	243.0	243.0	243.5	242.6
40°	232.7	234.2	234.2	230.7	231.7	230.7	230.7	230.2
42.5°	221.4	221.9	220.4	218.9	218.9	218.4	217.4	218.4
45°	209.5	209.0	207.6	206.1	206.1	205.6	204.6	206.6
47.5°	196.2	195.2	194.7	192.8	192.8	189.8	190.3	192.3
50°	182.9	181.9	180.0	179.0	177.5	176.0	175.5	175.5
52.5°	167.1	167.1	165.1	163.2	162.7	161.7	160.7	161.2
55°	153.3	153.3	151.9	148.4	146.4	144.0	142.5	142.0
57.5°	137.5	136.6	133.6	129.7	127.7	125.7	124.2	124.2
60°	121.8	119.3	116.3	112.9	109.4	106.0	105.0	104.5
62.5°	104.5	102.0	96.6	92.7	90.2	88.2	86.3	87.8
65°	87.3	83.8	78.9	74.9	72.5	69.5	68.0	68.0
67.5°	69.0	65.6	60.6	56.7	54.2	52.3	50.3	50.3
70°	50.8	48.3	43.9	40.4	38.5	35.5	35.0	35.0
72.5°	34.5	31.6	28.1	25.6	23.7	21.7	20.7	20.2
75°	19.2	17.2	14.8	13.3	11.3	10.3	9.4	9.4
77.5°	7.9	6.4	4.9	3.9	3.0	2.5	2.0	2.5
80°	1.5	1.0	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)