

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: P#

Luminaire Tested: **LX6C120D010 EX6C1209035 6LBCSSQMMS**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P#
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: LX6C120D010 EX6C1209035 6LBCSSQMMS
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

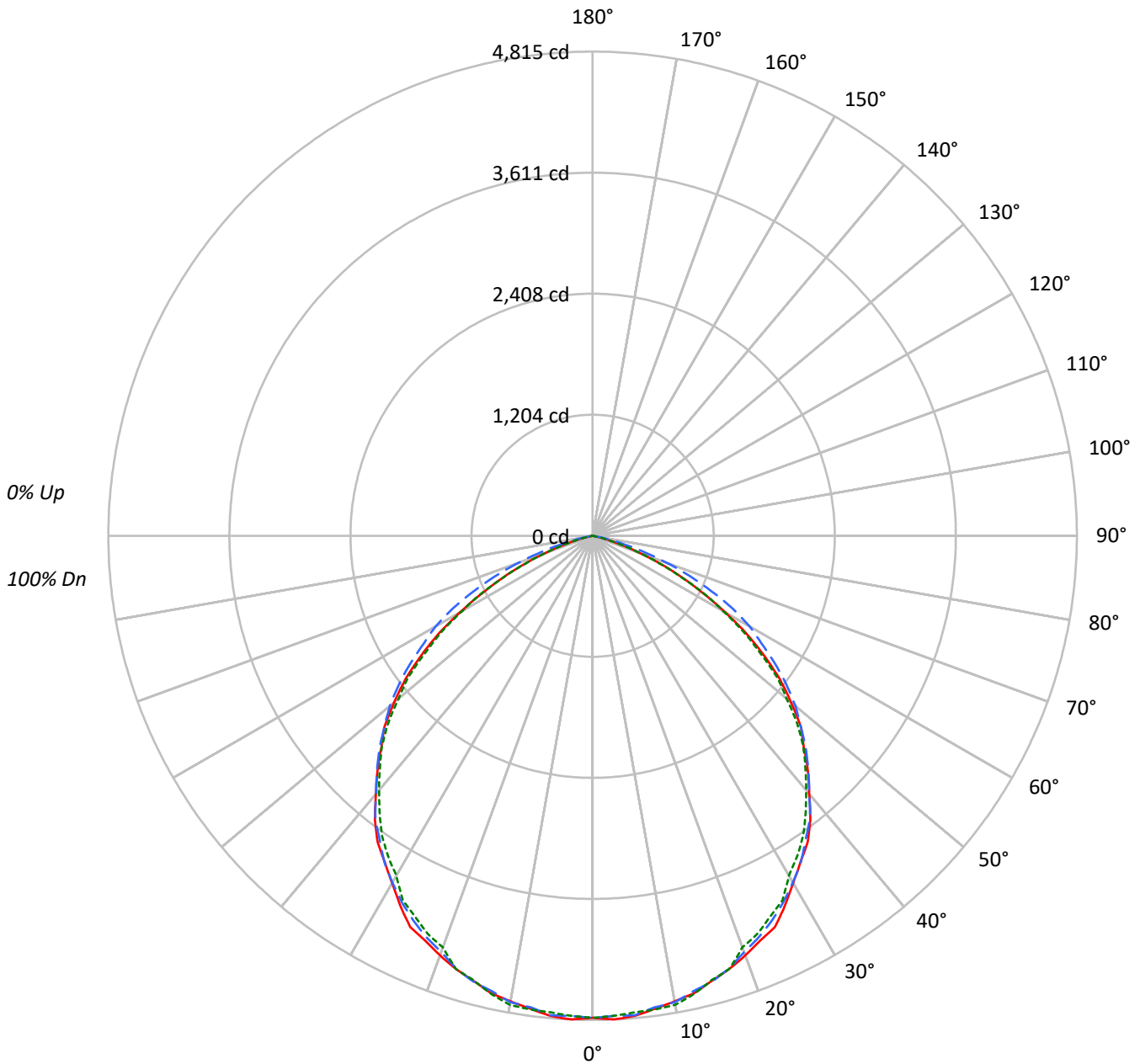
Lumens per Lamp: N/A
Luminaire Lumens: 11573.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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
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°	206383	206383	206383
5°	207171	206869	205646
10°	205558	205859	207101
15°	204209	204530	203902
20°	203431	201814	199546
25°	203870	200516	198497
30°	198239	197891	194023
35°	195833	193977	191743
40°	188349	188349	185573
45°	180813	182524	180374
50°	172380	176178	168595
55°	156564	166119	152848
60°	130898	155233	129072
65°	100126	132523	99393
70°	62314	97902	63195
75°	23539	52934	22325
80°	1736	8753	1736
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.3	3.9
10°-20°	1292.8	11.2
20°-30°	1945.3	16.8
30°-40°	2301.2	19.9
40°-50°	2296.5	19.8
50°-60°	1904.4	16.5
60°-70°	1112.6	9.6
70°-80°	264.9	2.3
80°-90°	1.9	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°	3691.4	31.9
0°-40°	5992.6	51.8
0°-60°	10193.5	88.1
0°-90°	11573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4793	4793	4793	4793	4793	
5°	4793	4769	4786	4772	4758	454
15°	4581	4578	4588	4567	4574	1295
25°	4291	4242	4221	4207	4178	1962
35°	3726	3690	3690	3669	3648	2316
45°	2970	2973	2998	2966	2962	2297
55°	2086	2160	2213	2153	2036	1852
65°	983	1106	1301	1103	976	977
75°	142	205	318	202	134	192
85°	0	0	0	0	0	1
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°	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4
2.5°	4814.8	4786.4	4807.6	4765.3	4793.4	4765.3	4772.3	4758.1	4786.4	4779.2	4772.3
5°	4793.4	4800.6	4786.4	4800.6	4779.2	4758.1	4779.2	4765.3	4722.8	4786.4	4772.3
7.5°	4743.9	4751.1	4737.0	4758.1	4743.9	4715.6	4772.3	4729.7	4722.8	4729.7	4758.1
10°	4701.7	4715.6	4708.6	4701.7	4708.6	4708.6	4694.4	4673.3	4694.4	4708.6	4701.7
12.5°	4659.1	4680.3	4666.1	4652.2	4638.0	4645.0	4659.1	4623.8	4623.8	4638.0	4680.3
15°	4581.3	4595.5	4602.4	4574.4	4574.4	4581.3	4609.7	4553.0	4581.3	4588.5	4595.5
17.5°	4517.7	4524.9	4524.9	4503.5	4517.7	4496.5	4517.7	4489.3	4517.7	4510.7	4524.9
20°	4439.9	4454.0	4439.9	4439.9	4425.9	4432.9	4432.9	4432.9	4411.8	4404.6	4418.7
22.5°	4355.1	4355.1	4340.9	4355.1	4340.9	4334.0	4369.3	4312.8	4369.3	4319.8	4362.3
25°	4291.4	4256.1	4235.0	4227.8	4256.1	4227.8	4242.0	4220.8	4235.0	4220.8	4227.8
27.5°	4143.0	4121.9	4114.7	4121.9	4121.9	4114.7	4143.0	4065.2	4114.7	4107.7	4107.7
30°	3987.4	3987.4	4001.5	3987.4	4001.5	3980.4	4008.8	3945.1	3987.4	3980.4	3987.4
32.5°	3846.2	3853.1	3853.1	3867.3	3846.2	3853.1	3853.1	3832.0	3846.2	3853.1	3838.9
35°	3725.8	3690.5	3690.5	3690.5	3690.5	3690.5	3704.7	3683.6	3704.7	3690.5	3690.5
37.5°	3556.3	3521.0	3521.0	3513.7	3549.0	3527.9	3563.2	3534.9	3534.9	3549.0	3549.0
40°	3351.1	3365.3	3344.2	3372.3	3365.3	3337.0	3400.6	3358.4	3386.5	3351.1	3379.5
42.5°	3167.4	3174.4	3167.4	3160.2	3188.6	3181.6	3209.7	3181.6	3174.4	3174.4	3223.9
45°	2969.5	2969.5	2969.5	2990.7	2969.5	2976.5	3004.8	2990.7	3004.8	2997.6	3047.1
47.5°	2806.7	2771.4	2764.4	2806.7	2799.7	2806.7	2806.7	2813.9	2820.8	2806.7	2828.1
50°	2573.5	2559.3	2559.3	2566.5	2573.5	2587.6	2608.8	2622.9	2608.8	2630.2	2637.1
52.5°	2347.2	2333.0	2340.3	2368.3	2382.5	2375.6	2410.9	2417.8	2410.9	2425.0	2425.0
55°	2085.7	2071.5	2092.6	2128.2	2149.3	2170.5	2205.8	2177.7	2205.8	2213.0	2219.9
57.5°	1816.9	1810.0	1816.9	1852.2	1873.6	1923.1	1979.5	1979.5	2007.9	1986.7	2007.9
60°	1520.1	1520.1	1548.4	1569.5	1626.2	1661.5	1718.0	1746.3	1774.7	1802.7	1788.8
62.5°	1237.1	1244.3	1265.5	1314.9	1350.2	1400.0	1463.4	1491.7	1541.2	1569.5	1555.4
65°	982.8	982.8	997.0	1039.2	1074.5	1138.2	1194.9	1258.5	1286.9	1300.8	1308.0
67.5°	735.2	728.2	756.6	784.9	820.2	883.9	947.5	982.8	1032.3	1046.4	1039.2
70°	495.0	502.0	516.1	544.5	586.7	636.2	707.1	735.2	763.5	777.7	763.5
72.5°	311.0	311.0	318.2	346.3	374.7	410.0	459.4	487.8	523.1	530.3	516.1
75°	141.5	141.5	155.6	169.5	190.9	219.3	254.6	275.7	296.8	318.2	318.2
77.5°	28.3	35.3	42.5	42.5	56.4	77.8	98.9	120.1	141.5	141.5	141.5
80°	7.0	7.0	7.0	7.0	7.0	7.0	14.2	21.1	35.3	35.3	35.3
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°	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4	4793.4
2.5°	4793.4	4835.9	4793.4	4772.3	4800.6	4793.4	4772.3	4779.2
5°	4772.3	4786.4	4800.6	4743.9	4779.2	4786.4	4772.3	4758.1
7.5°	4751.1	4758.1	4751.1	4737.0	4737.0	4737.0	4751.1	4751.1
10°	4743.9	4722.8	4687.5	4666.1	4687.5	4687.5	4680.3	4737.0
12.5°	4652.2	4680.3	4659.1	4616.6	4659.1	4652.2	4652.2	4666.1
15°	4581.3	4581.3	4595.5	4539.1	4567.1	4560.2	4560.2	4574.4
17.5°	4510.7	4510.7	4503.5	4489.3	4482.4	4503.5	4482.4	4517.7
20°	4411.8	4425.9	4468.2	4397.6	4418.7	4397.6	4397.6	4355.1
22.5°	4291.4	4362.3	4326.7	4319.8	4312.8	4319.8	4334.0	4284.5
25°	4213.6	4213.6	4227.8	4185.5	4185.5	4199.7	4192.5	4178.3
27.5°	4107.7	4100.5	4093.5	4079.4	4114.7	4086.6	4086.6	4086.6
30°	3959.3	3980.4	3973.5	3937.9	3980.4	3966.2	3945.1	3902.6
32.5°	3832.0	3860.3	3817.8	3810.9	3803.6	3810.9	3817.8	3782.5
35°	3676.3	3683.6	3683.6	3655.2	3662.2	3655.2	3641.0	3648.0
37.5°	3534.9	3527.9	3492.6	3478.4	3485.4	3485.4	3492.6	3478.4
40°	3337.0	3358.4	3358.4	3308.9	3322.8	3308.9	3308.9	3301.7
42.5°	3174.4	3181.6	3160.2	3139.1	3139.1	3132.1	3118.0	3132.1
45°	3004.8	2997.6	2976.5	2955.4	2955.4	2948.1	2934.0	2962.3
47.5°	2813.9	2799.7	2792.8	2764.4	2764.4	2721.9	2729.1	2757.2
50°	2622.9	2608.8	2580.7	2566.5	2545.1	2524.0	2517.0	2517.0
52.5°	2396.7	2396.7	2368.3	2340.3	2333.0	2318.9	2304.7	2311.9
55°	2198.8	2198.8	2177.7	2128.2	2099.9	2064.5	2043.2	2036.2
57.5°	1972.6	1958.4	1915.9	1859.4	1831.1	1802.7	1781.6	1781.6
60°	1746.3	1711.0	1668.5	1619.0	1569.5	1520.1	1505.9	1498.9
62.5°	1498.9	1463.4	1385.8	1329.1	1293.8	1265.5	1237.1	1258.5
65°	1251.3	1201.8	1131.2	1074.5	1039.2	997.0	975.6	975.6
67.5°	989.8	940.3	869.7	813.0	777.7	749.3	721.3	721.3
70°	728.2	692.9	629.3	579.8	551.4	508.9	502.0	502.0
72.5°	495.0	452.5	403.0	367.7	339.4	311.0	296.8	289.9
75°	275.7	247.4	212.1	190.9	162.6	148.4	134.2	134.2
77.5°	113.1	92.0	70.6	56.4	42.5	35.3	28.3	35.3
80°	21.1	14.2	7.0	7.0	7.0	7.0	7.0	7.0
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)