

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: P799842

Luminaire Tested: **LD6C55D010 EU6559027 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C55D010 EU6559027 6LBMDSWWH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

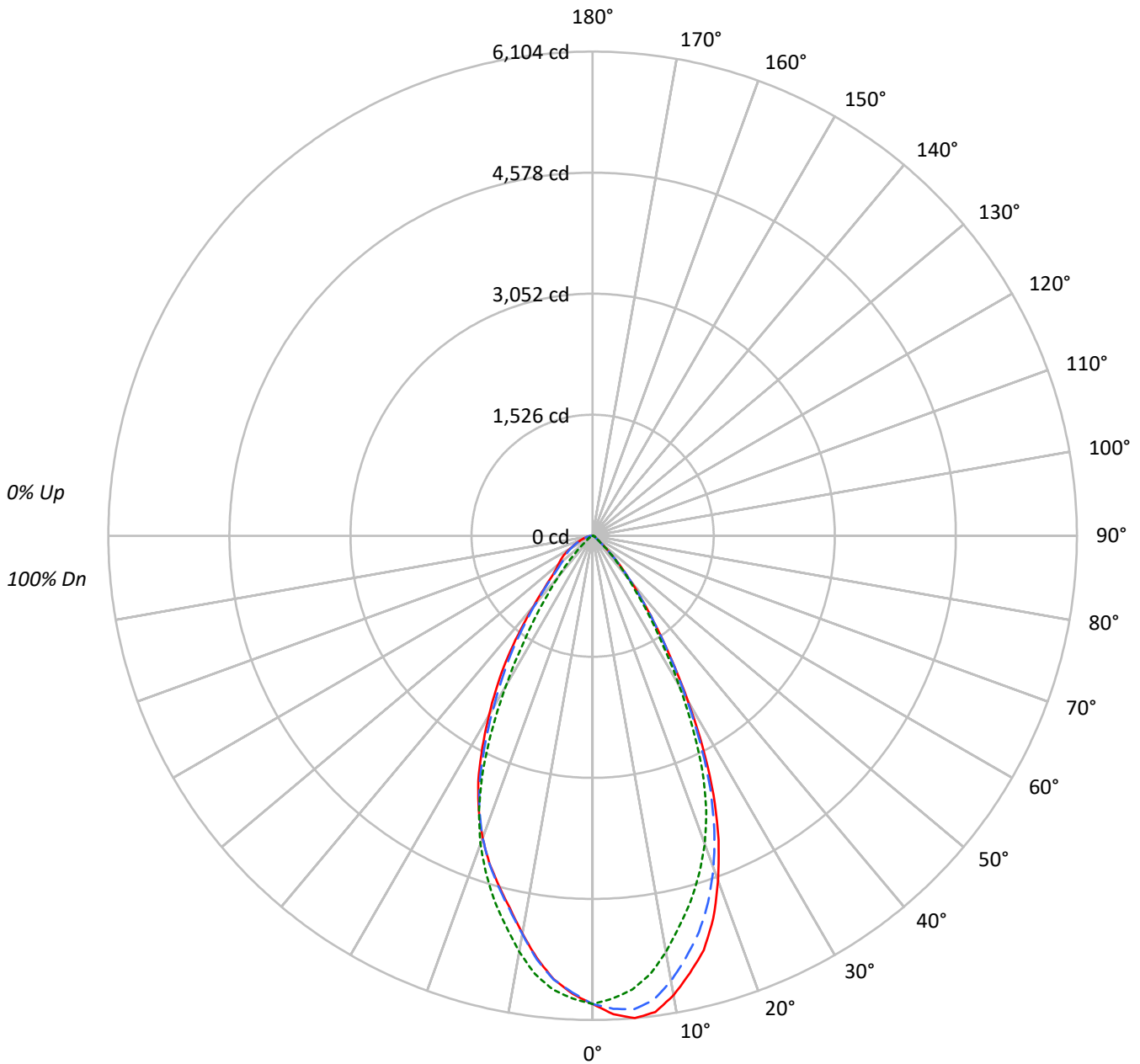
Lumens per Lamp: N/A
Luminaire Lumens: 5082.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V): NR
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

TEST NUMBER: P799842

CATALOG NUMBER: LD6C55D010 EU6559027 6LBMDSWWH

Luminous Intensity Polar Plot





TEST NUMBER: P799842

CATALOG NUMBER: LD6C55D010 EU6559027 6LBMDSWWH

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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	323587	323587	323587
5°	335890	315996	308848
10°	327304	296398	283361
15°	306965	270836	259127
20°	269483	241107	236504
25°	217948	198078	206244
30°	151523	137983	165063
35°	93391	84524	124577
40°	52849	47382	82734
45°	25662	24483	56463
50°	9774	9774	47998
55°	5352	6327	44299
60°	3914	5022	36291
65°	3308	4294	29731
70°	2853	3670	24491
75°	2690	3770	21033
80°	1610	3220	15280
85°	1572	6416	14404



TEST NUMBER: P799842

CATALOG NUMBER: LD6C55D010 EU6559027 6LBMSWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.4	10.6
10°-20°	1358.2	26.7
20°-30°	1528.9	30.1
30°-40°	946.7	18.6
40°-50°	377.0	7.4
50°-60°	171.6	3.4
60°-70°	98.7	1.9
70°-80°	46.9	0.9
80°-90°	13.7	0.3
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°	3427.4	67.4
0°-40°	4374.2	86.1
0°-60°	4922.8	96.9
0°-90°	5082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5903	5903	5903	5903	5903	
5°	6104	5992	5742	5618	5612	575
15°	5409	5174	4772	4578	4566	1496
25°	3603	3506	3275	3356	3410	1620
35°	1396	1388	1263	1760	1862	897
45°	331	331	316	688	728	280
55°	56	54	66	407	464	56
65°	26	23	33	227	229	25
75°	13	13	18	97	99	13
85°	2	2	10	23	23	2
90°	0	0	0	0	0	



TEST NUMBER: P799842

CATALOG NUMBER: LD6C55D010 EU6559027 6LBMSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5902.7	5902.7	5902.7	5902.7	5902.7	5902.7	5902.7	5902.7	5902.7
2.5°	6037.6	5981.6	5968.9	5920.5	5839.0	5793.2	5765.2	5744.8	5780.4
5°	6103.8	6042.7	5991.8	5892.5	5742.3	5658.2	5617.5	5584.4	5612.4
7.5°	6055.5	5968.9	5900.1	5762.6	5571.6	5441.8	5385.7	5347.6	5373.0
10°	5879.8	5775.4	5696.4	5533.4	5324.6	5169.3	5100.5	5064.9	5090.4
12.5°	5650.6	5564.0	5444.3	5266.1	5042.0	4879.0	4828.1	4800.1	4810.2
15°	5408.7	5306.8	5174.4	4996.1	4772.1	4609.1	4578.5	4560.7	4565.8
17.5°	5057.3	4957.9	4843.4	4670.2	4463.9	4331.5	4331.5	4318.8	4326.4
20°	4619.3	4565.8	4453.7	4308.6	4132.9	4013.2	4051.4	4038.7	4054.0
22.5°	4145.6	4104.9	4008.1	3888.4	3740.7	3646.5	3730.6	3728.0	3748.4
25°	3603.2	3572.7	3506.5	3404.6	3274.7	3216.2	3356.2	3356.2	3409.7
27.5°	3004.8	2974.3	2928.4	2841.8	2734.9	2717.1	2923.3	2948.8	3007.4
30°	2393.7	2373.3	2347.8	2268.9	2179.8	2212.9	2498.1	2541.4	2607.6
32.5°	1848.7	1836.0	1828.4	1757.1	1678.1	1787.6	2113.6	2169.6	2235.8
35°	1395.5	1367.4	1387.8	1334.3	1263.0	1400.5	1759.6	1808.0	1861.5
37.5°	1028.8	1008.4	1026.2	988.0	924.4	1074.6	1413.3	1443.8	1479.5
40°	738.5	720.6	735.9	713.0	662.1	802.1	1107.7	1140.8	1156.1
42.5°	524.6	494.0	509.3	491.5	466.0	603.5	870.9	901.4	906.5
45°	331.0	320.9	331.0	320.9	315.8	448.2	687.5	715.6	728.3
47.5°	201.2	188.4	188.4	183.3	188.4	331.0	567.9	608.6	629.0
50°	114.6	109.5	107.0	104.4	114.6	259.7	491.5	537.3	562.8
52.5°	76.4	73.8	73.8	71.3	84.0	219.0	443.1	483.8	509.3
55°	56.0	53.5	53.5	53.5	66.2	188.4	407.4	440.5	463.5
57.5°	43.3	43.3	43.3	40.7	56.0	160.4	364.1	382.0	399.8
60°	35.7	33.1	33.1	33.1	45.8	137.5	313.2	320.9	331.0
62.5°	28.0	28.0	28.0	28.0	38.2	122.2	269.9	269.9	275.0
65°	25.5	22.9	22.9	22.9	33.1	107.0	226.6	224.1	229.2
67.5°	20.4	20.4	20.4	20.4	28.0	91.7	185.9	183.3	188.4
70°	17.8	17.8	17.8	17.8	22.9	76.4	150.2	147.7	152.8
72.5°	15.3	15.3	15.3	15.3	20.4	63.7	119.7	119.7	122.2
75°	12.7	12.7	12.7	12.7	17.8	48.4	96.8	96.8	99.3
77.5°	10.2	10.2	10.2	10.2	12.7	38.2	73.8	71.3	71.3
80°	5.1	7.6	7.6	7.6	10.2	28.0	53.5	48.4	48.4
82.5°	2.5	5.1	5.1	5.1	10.2	20.4	35.7	33.1	33.1
85°	2.5	2.5	2.5	7.6	10.2	15.3	22.9	22.9	22.9
87.5°	0.0	2.5	5.1	10.2	12.7	12.7	15.3	12.7	12.7
90°	0.0	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)