

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: P799878

Luminaire Tested: **LD6C55D010 EU6559040 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799878
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 EU6559040 6LBMDSWWH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

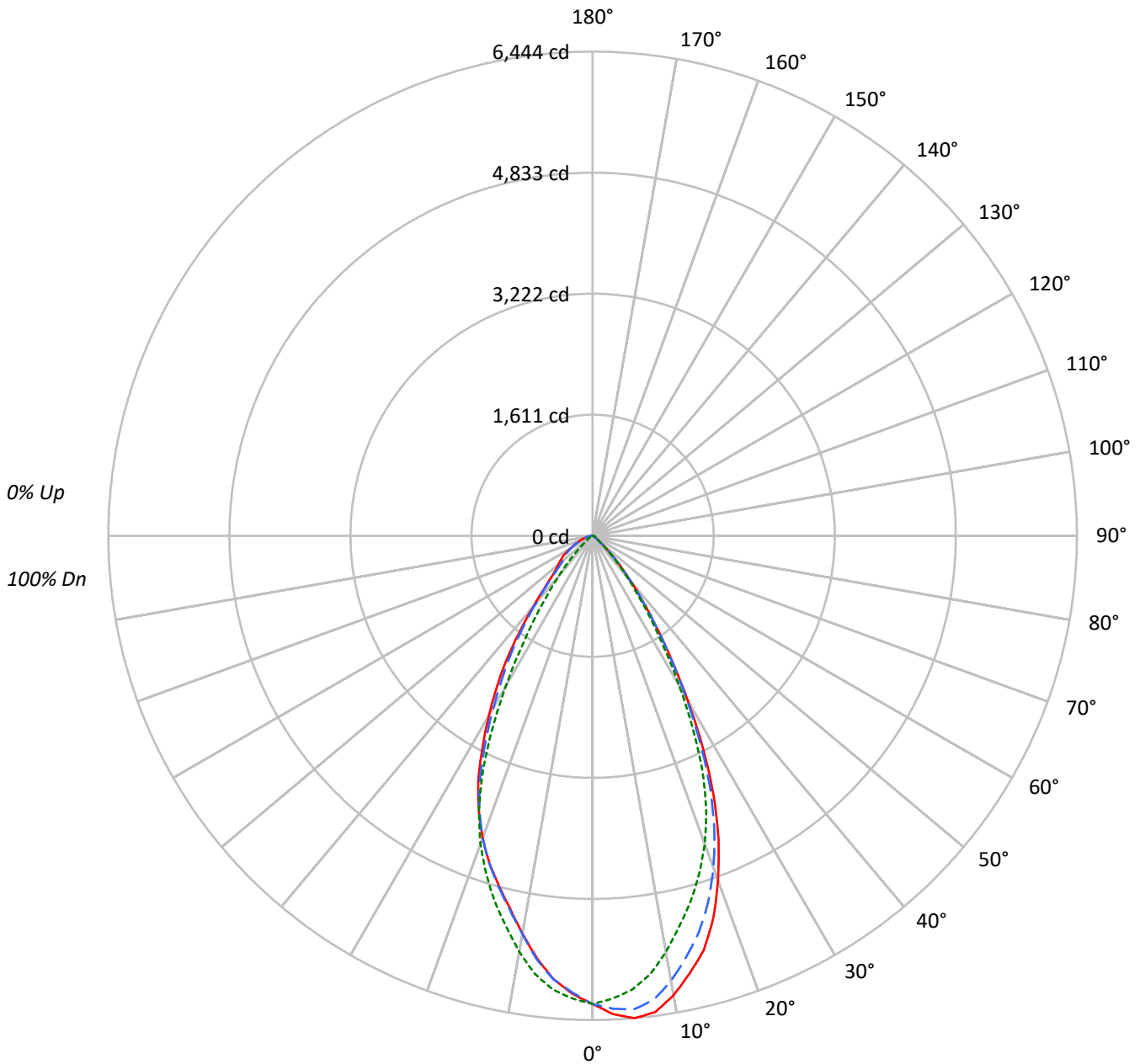
Lumens per Lamp: N/A
Luminaire Lumens: 5365.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P799878

CATALOG NUMBER: LD6C55D010 EU6559040 6LBMDSWWH

Luminous Intensity Polar Plot





TEST NUMBER: P799878

CATALOG NUMBER: LD6C55D010 EU6559040 6LBMDSWWH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	341606	341606	341606
5°	354600	333589	326045
10°	345529	312903	299137
15°	324060	285915	273554
20°	284487	254530	249671
25°	230088	209111	217730
30°	159961	145662	174255
35°	98591	89235	131511
40°	55790	50015	87342
45°	27096	25840	59603
50°	10319	10319	50668
55°	5649	6681	46765
60°	4122	5307	38319
65°	3489	4527	31378
70°	3013	3879	25854
75°	2838	3982	22198
80°	1705	3410	16132
85°	1698	6793	15222



TEST NUMBER: P799878

CATALOG NUMBER: LD6C55D010 EU6559040 6LBMDSWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.5	10.6
10°-20°	1433.8	26.7
20°-30°	1614.0	30.1
30°-40°	999.4	18.6
40°-50°	398.0	7.4
50°-60°	181.2	3.4
60°-70°	104.2	1.9
70°-80°	49.5	0.9
80°-90°	14.4	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°	3618.3	67.4
0°-40°	4617.7	86.1
0°-60°	5196.9	96.9
0°-90°	5365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5365.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6231	6231	6231	6231	6231	
5°	6444	6326	6062	5930	5925	607
15°	5710	5462	5038	4834	4820	1580
25°	3804	3702	3457	3543	3600	1710
35°	1473	1465	1333	1858	1965	947
45°	350	350	333	726	769	296
55°	59	56	70	430	489	59
65°	27	24	35	239	242	26
75°	13	13	19	102	105	14
85°	3	3	11	24	24	2
90°	0	0	0	0	0	



TEST NUMBER: P799878

CATALOG NUMBER: LD6C55D010 EU6559040 6LBMDSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6231.4	6231.4	6231.4	6231.4	6231.4	6231.4	6231.4	6231.4	6231.4
2.5°	6373.9	6314.7	6301.3	6250.2	6164.2	6115.8	6086.2	6064.7	6102.3
5°	6443.8	6379.2	6325.5	6220.6	6062.0	5973.3	5930.3	5895.3	5924.9
7.5°	6392.7	6301.3	6228.7	6083.5	5881.9	5744.8	5685.7	5645.3	5672.2
10°	6207.2	6097.0	6013.6	5841.6	5621.1	5457.2	5384.6	5346.9	5373.8
12.5°	5965.2	5873.8	5747.5	5559.3	5322.7	5150.7	5096.9	5067.4	5078.1
15°	5709.9	5602.3	5462.5	5274.4	5037.8	4865.7	4833.5	4814.7	4820.0
17.5°	5338.9	5234.0	5113.1	4930.3	4712.5	4572.7	4572.7	4559.3	4567.3
20°	4876.5	4820.0	4701.8	4548.5	4363.0	4236.7	4277.0	4263.6	4279.7
22.5°	4376.5	4333.5	4231.3	4105.0	3949.0	3849.6	3938.3	3935.6	3957.1
25°	3803.9	3771.6	3701.7	3594.2	3457.1	3395.3	3543.1	3543.1	3599.6
27.5°	3172.1	3139.9	3091.5	3000.1	2887.2	2868.4	3086.1	3113.0	3174.8
30°	2527.0	2505.5	2478.6	2395.2	2301.1	2336.1	2637.2	2682.9	2752.8
32.5°	1951.7	1938.2	1930.2	1854.9	1771.6	1887.2	2231.3	2290.4	2360.3
35°	1473.2	1443.6	1465.1	1408.6	1333.4	1478.5	1857.6	1908.7	1965.1
37.5°	1086.1	1064.5	1083.4	1043.0	975.8	1134.4	1492.0	1524.2	1561.9
40°	779.6	760.8	776.9	752.7	698.9	846.8	1169.4	1204.3	1220.5
42.5°	553.8	521.5	537.7	518.8	492.0	637.1	919.4	951.6	957.0
45°	349.5	338.7	349.5	338.7	333.3	473.1	725.8	755.4	768.8
47.5°	212.4	198.9	198.9	193.6	198.9	349.5	599.5	642.5	664.0
50°	121.0	115.6	112.9	110.2	121.0	274.2	518.8	567.2	594.1
52.5°	80.6	78.0	78.0	75.3	88.7	231.2	467.8	510.8	537.7
55°	59.1	56.5	56.5	56.5	69.9	198.9	430.1	465.1	489.3
57.5°	45.7	45.7	45.7	43.0	59.1	169.4	384.4	403.2	422.1
60°	37.6	34.9	34.9	34.9	48.4	145.2	330.7	338.7	349.5
62.5°	29.6	29.6	29.6	29.6	40.3	129.0	285.0	285.0	290.3
65°	26.9	24.2	24.2	24.2	34.9	112.9	239.3	236.6	241.9
67.5°	21.5	21.5	21.5	21.5	29.6	96.8	196.2	193.6	198.9
70°	18.8	18.8	18.8	18.8	24.2	80.6	158.6	155.9	161.3
72.5°	16.1	16.1	16.1	16.1	21.5	67.2	126.3	126.3	129.0
75°	13.4	13.4	13.4	13.4	18.8	51.1	102.2	102.2	104.8
77.5°	10.8	10.8	10.8	10.8	13.4	40.3	78.0	75.3	75.3
80°	5.4	8.1	8.1	8.1	10.8	29.6	56.5	51.1	51.1
82.5°	2.7	5.4	5.4	5.4	10.8	21.5	37.6	34.9	34.9
85°	2.7	2.7	2.7	8.1	10.8	16.1	24.2	24.2	24.2
87.5°	0.0	2.7	5.4	10.8	13.4	13.4	16.1	13.4	13.4
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)