

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: P799891

Luminaire Tested: **LD6C55D010 EU6559050 6LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799891
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 EU6559050 6LBMDSWWMH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

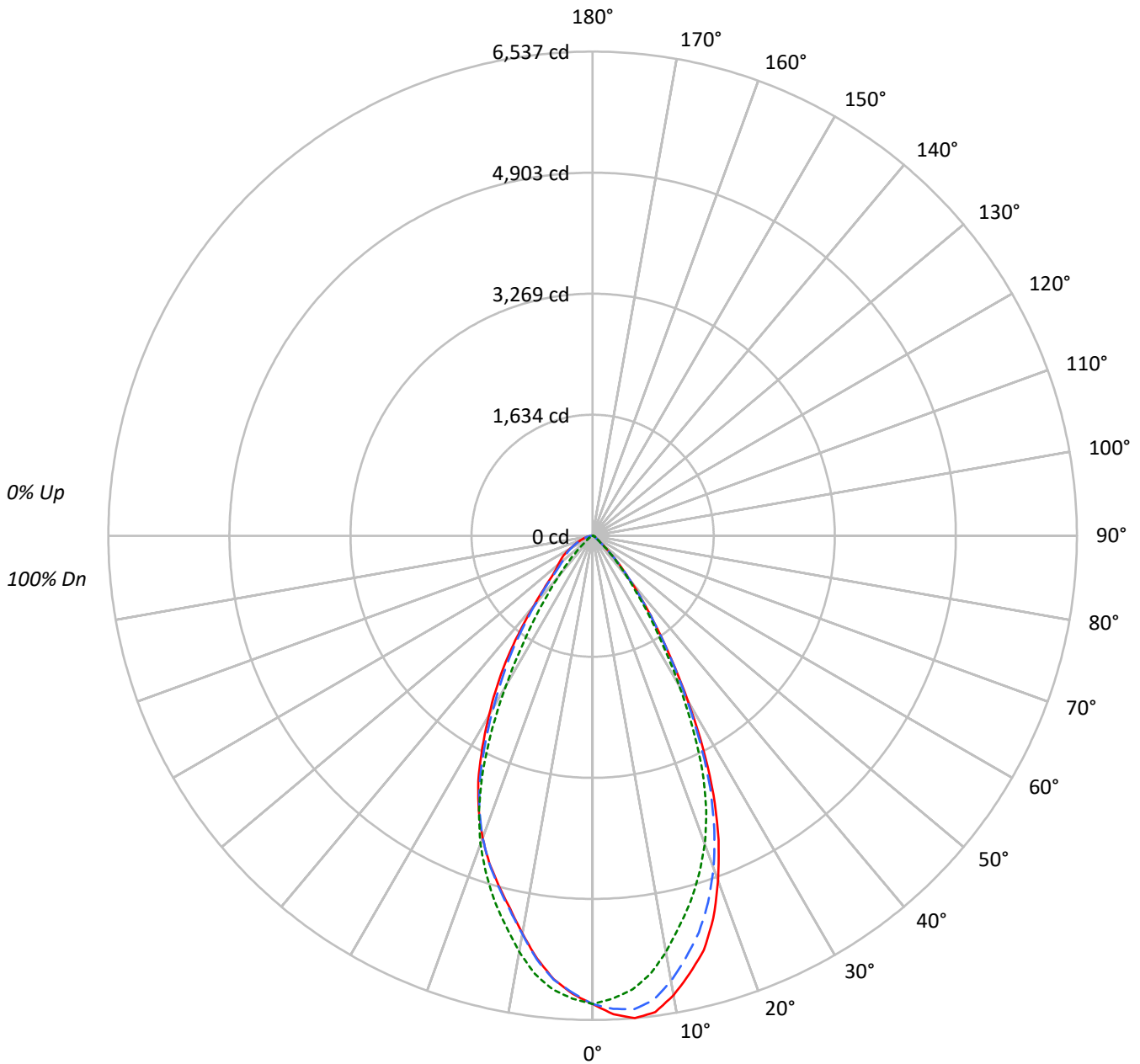
Lumens per Lamp: N/A
Luminaire Lumens: 5443.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P799891

CATALOG NUMBER: LD6C55D010 EU6559050 6LBMDSWWMH

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	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°	346573	346573	346573
5°	359750	338443	330788
10°	350550	317457	303490
15°	328770	290070	277533
20°	288623	258235	253300
25°	233433	212153	220894
30°	162284	147782	176787
35°	100023	90534	133425
40°	56599	50745	88609
45°	27491	26220	60471
50°	10464	10464	51401
55°	5735	6776	47444
60°	4188	5383	38878
65°	3541	4605	31845
70°	3061	3927	26222
75°	2881	4046	22536
80°	1736	3441	16353
85°	1698	6856	15410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.8	10.6
10°-20°	1454.6	26.7
20°-30°	1637.5	30.1
30°-40°	1014.0	18.6
40°-50°	403.8	7.4
50°-60°	183.8	3.4
60°-70°	105.7	1.9
70°-80°	50.2	0.9
80°-90°	14.6	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°	3670.9	67.4
0°-40°	4684.9	86.1
0°-60°	5272.5	96.9
0°-90°	5443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5443.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6322	6322	6322	6322	6322	
5°	6537	6417	6150	6016	6011	616
15°	5793	5542	5111	4904	4890	1603
25°	3859	3756	3507	3595	3652	1735
35°	1495	1486	1353	1885	1994	960
45°	355	355	338	736	780	300
55°	60	57	71	436	496	60
65°	27	24	36	243	246	27
75°	14	14	19	104	106	14
85°	3	3	11	24	24	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6322.0	6322.0	6322.0	6322.0	6322.0	6322.0	6322.0	6322.0	6322.0
2.5°	6466.5	6406.5	6392.9	6341.1	6253.8	6204.7	6174.7	6152.9	6191.1
5°	6537.4	6472.0	6417.4	6311.1	6150.2	6060.2	6016.5	5981.1	6011.1
7.5°	6485.6	6392.9	6319.2	6172.0	5967.4	5828.3	5768.3	5727.4	5754.7
10°	6297.4	6185.6	6101.1	5926.5	5702.9	5536.5	5462.9	5424.7	5452.0
12.5°	6052.0	5959.2	5831.1	5640.1	5400.1	5225.6	5171.0	5141.0	5151.9
15°	5792.9	5683.8	5542.0	5351.0	5111.0	4936.5	4903.8	4884.7	4890.1
17.5°	5416.5	5310.1	5187.4	5001.9	4781.0	4639.2	4639.2	4625.6	4633.8
20°	4947.4	4890.1	4770.1	4614.7	4426.5	4298.3	4339.2	4325.6	4341.9
22.5°	4440.1	4396.5	4292.8	4164.6	4006.5	3905.6	3995.6	3992.8	4014.6
25°	3859.2	3826.5	3755.5	3646.5	3507.4	3444.6	3594.6	3594.6	3651.9
27.5°	3218.3	3185.5	3136.4	3043.7	2929.2	2910.1	3131.0	3158.3	3221.0
30°	2563.7	2541.9	2514.6	2430.1	2334.6	2370.1	2675.5	2721.9	2792.8
32.5°	1980.0	1966.4	1958.2	1881.9	1797.3	1914.6	2263.7	2323.7	2394.6
35°	1494.6	1464.6	1486.4	1429.1	1352.8	1500.0	1884.6	1936.4	1993.7
37.5°	1101.8	1080.0	1099.1	1058.2	990.0	1150.9	1513.7	1546.4	1584.6
40°	790.9	771.8	788.2	763.7	709.1	859.1	1186.4	1221.8	1238.2
42.5°	561.8	529.1	545.5	526.4	499.1	646.4	932.8	965.5	970.9
45°	354.6	343.6	354.6	343.6	338.2	480.0	736.4	766.4	780.0
47.5°	215.5	201.8	201.8	196.4	201.8	354.6	608.2	651.8	673.7
50°	122.7	117.3	114.5	111.8	122.7	278.2	526.4	575.5	602.7
52.5°	81.8	79.1	79.1	76.4	90.0	234.6	474.6	518.2	545.5
55°	60.0	57.3	57.3	57.3	70.9	201.8	436.4	471.8	496.4
57.5°	46.4	46.4	46.4	43.6	60.0	171.8	390.0	409.1	428.2
60°	38.2	35.5	35.5	35.5	49.1	147.3	335.5	343.6	354.6
62.5°	30.0	30.0	30.0	30.0	40.9	130.9	289.1	289.1	294.6
65°	27.3	24.5	24.5	24.5	35.5	114.5	242.7	240.0	245.5
67.5°	21.8	21.8	21.8	21.8	30.0	98.2	199.1	196.4	201.8
70°	19.1	19.1	19.1	19.1	24.5	81.8	160.9	158.2	163.6
72.5°	16.4	16.4	16.4	16.4	21.8	68.2	128.2	128.2	130.9
75°	13.6	13.6	13.6	13.6	19.1	51.8	103.6	103.6	106.4
77.5°	10.9	10.9	10.9	10.9	13.6	40.9	79.1	76.4	76.4
80°	5.5	8.2	8.2	8.2	10.9	30.0	57.3	51.8	51.8
82.5°	2.7	5.5	5.5	5.5	10.9	21.8	38.2	35.5	35.5
85°	2.7	2.7	2.7	8.2	10.9	16.4	24.5	24.5	24.5
87.5°	0.0	2.7	5.5	10.9	13.6	13.6	16.4	13.6	13.6
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)