

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: P799758

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799758
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: LD6C45D010 EU6459040 6LBMDSWWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

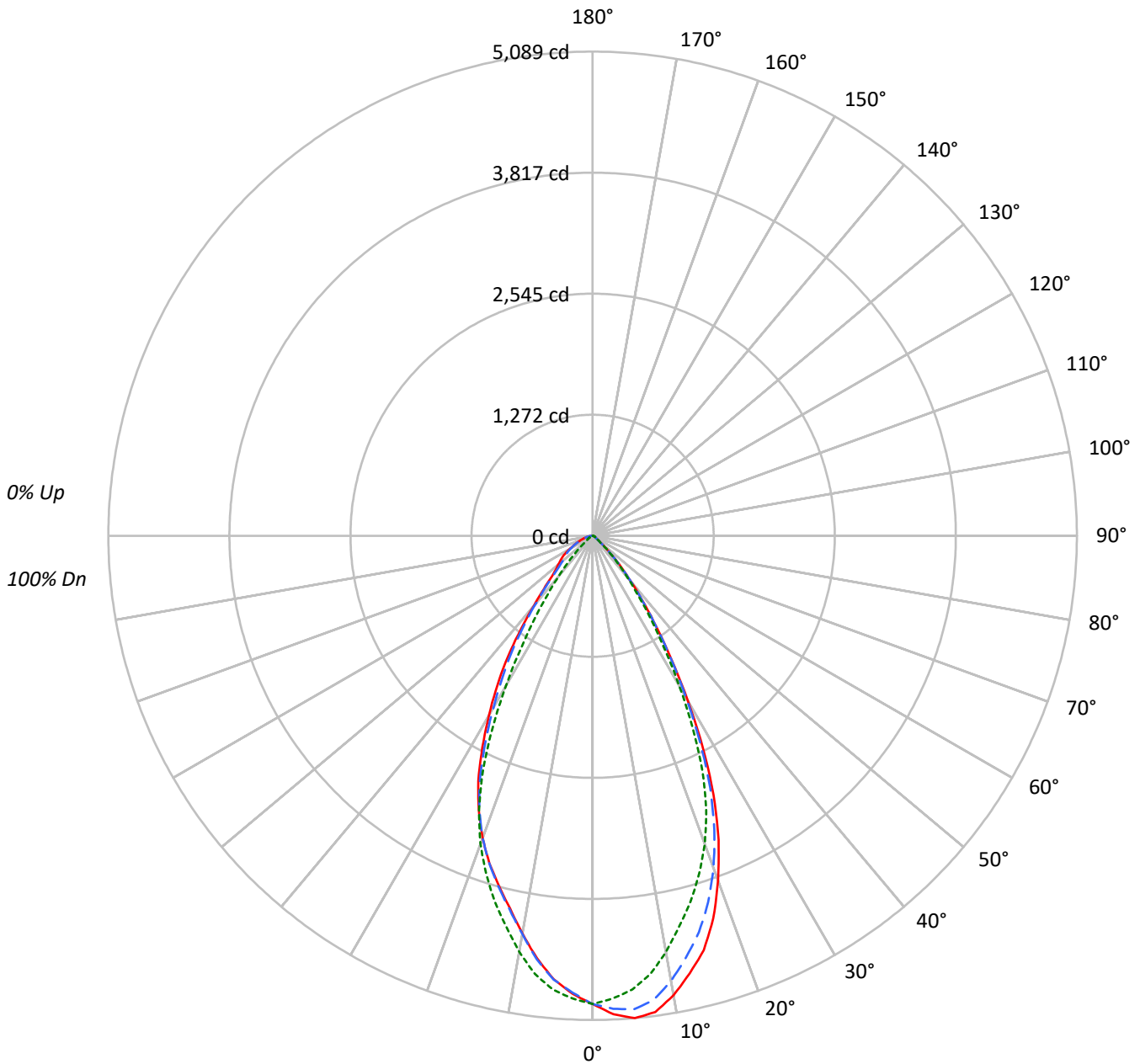
Lumens per Lamp: N/A
Luminaire Lumens: 4237.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P799758

CATALOG NUMBER: LD6C45D010 EU6459040 6LBMDSWWH

Luminous Intensity Polar Plot





TEST NUMBER: P799758

CATALOG NUMBER: LD6C45D010 EU6459040 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°	269781	269781	269781
5°	280040	263454	257494
10°	272880	247117	236246
15°	255927	225802	216040
20°	224673	201017	197178
25°	181710	165143	171953
30°	126330	115037	137616
35°	77858	70470	103858
40°	44061	39503	68979
45°	21398	20413	47075
50°	8145	8145	40016
55°	4463	5276	36931
60°	3256	4188	30261
65°	2750	3580	24789
70°	2388	3061	20420
75°	2245	3156	17538
80°	1326	2683	12723
85°	1321	5346	12014



TEST NUMBER: P799758

CATALOG NUMBER: LD6C45D010 EU6459040 6LBMDSWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.5	10.6
10°-20°	1132.3	26.7
20°-30°	1274.7	30.1
30°-40°	789.3	18.6
40°-50°	314.3	7.4
50°-60°	143.1	3.4
60°-70°	82.3	1.9
70°-80°	39.1	0.9
80°-90°	11.4	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°	2857.5	67.4
0°-40°	3646.9	86.1
0°-60°	4104.3	96.9
0°-90°	4237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4237.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4921	4921	4921	4921	4921	
5°	5089	4996	4788	4683	4679	479
15°	4509	4314	3979	3817	3807	1248
25°	3004	2923	2730	2798	2843	1350
35°	1163	1157	1053	1467	1552	748
45°	276	276	263	573	607	234
55°	47	45	55	340	386	46
65°	21	19	28	189	191	21
75°	11	11	15	81	83	11
85°	2	2	8	19	19	2
90°	0	0	0	0	0	



TEST NUMBER: P799758

CATALOG NUMBER: LD6C45D010 EU6459040 6LBMSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2	4921.2
2.5°	5033.7	4987.0	4976.4	4936.1	4868.1	4829.9	4806.6	4789.6	4819.3
5°	5088.9	5038.0	4995.5	4912.7	4787.5	4717.4	4683.4	4655.8	4679.2
7.5°	5048.6	4976.4	4919.1	4804.5	4645.2	4537.0	4490.2	4458.4	4479.6
10°	4902.1	4815.1	4749.3	4613.4	4439.3	4309.8	4252.5	4222.7	4244.0
12.5°	4711.0	4638.9	4539.1	4390.5	4203.6	4067.8	4025.3	4001.9	4010.4
15°	4509.4	4424.4	4314.0	4165.4	3978.6	3842.7	3817.2	3802.4	3806.6
17.5°	4216.4	4133.6	4038.0	3893.7	3721.7	3611.3	3611.3	3600.7	3607.1
20°	3851.2	3806.6	3713.2	3592.2	3445.7	3345.9	3377.8	3367.2	3379.9
22.5°	3456.3	3422.4	3341.7	3241.9	3118.8	3040.2	3110.3	3108.1	3125.1
25°	3004.1	2978.6	2923.4	2838.5	2730.2	2681.4	2798.2	2798.2	2842.8
27.5°	2505.2	2479.7	2441.5	2369.3	2280.2	2265.3	2437.3	2458.5	2507.3
30°	1995.7	1978.7	1957.4	1891.6	1817.3	1844.9	2082.7	2118.8	2174.0
32.5°	1541.3	1530.7	1524.3	1464.9	1399.1	1490.4	1762.1	1808.8	1864.0
35°	1163.4	1140.1	1157.1	1112.5	1053.0	1167.7	1467.0	1507.4	1551.9
37.5°	857.7	840.7	855.6	823.7	770.7	895.9	1178.3	1203.8	1233.5
40°	615.7	600.8	613.6	594.5	552.0	668.8	923.5	951.1	963.9
42.5°	437.3	411.9	424.6	409.7	388.5	503.2	726.1	751.6	755.8
45°	276.0	267.5	276.0	267.5	263.3	373.7	573.2	596.6	607.2
47.5°	167.7	157.1	157.1	152.9	157.1	276.0	473.4	507.4	524.4
50°	95.5	91.3	89.2	87.0	95.5	216.6	409.7	448.0	469.2
52.5°	63.7	61.6	61.6	59.4	70.1	182.6	369.4	403.4	424.6
55°	46.7	44.6	44.6	44.6	55.2	157.1	339.7	367.3	386.4
57.5°	36.1	36.1	36.1	34.0	46.7	133.8	303.6	318.5	333.3
60°	29.7	27.6	27.6	27.6	38.2	114.6	261.1	267.5	276.0
62.5°	23.4	23.4	23.4	23.4	31.8	101.9	225.0	225.0	229.3
65°	21.2	19.1	19.1	19.1	27.6	89.2	189.0	186.8	191.1
67.5°	17.0	17.0	17.0	17.0	23.4	76.4	155.0	152.9	157.1
70°	14.9	14.9	14.9	14.9	19.1	63.7	125.3	123.1	127.4
72.5°	12.7	12.7	12.7	12.7	17.0	53.1	99.8	99.8	101.9
75°	10.6	10.6	10.6	10.6	14.9	40.3	80.7	80.7	82.8
77.5°	8.5	8.5	8.5	8.5	10.6	31.8	61.6	59.4	59.4
80°	4.2	6.4	6.4	6.4	8.5	23.4	44.6	40.3	40.3
82.5°	2.1	4.2	4.2	4.2	8.5	17.0	29.7	27.6	27.6
85°	2.1	2.1	2.1	6.4	8.5	12.7	19.1	19.1	19.1
87.5°	0.0	2.1	4.2	8.5	10.6	10.6	12.7	10.6	10.6
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)