

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: P799776

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDDWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C50D010 EU6509027 6LBMDDWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

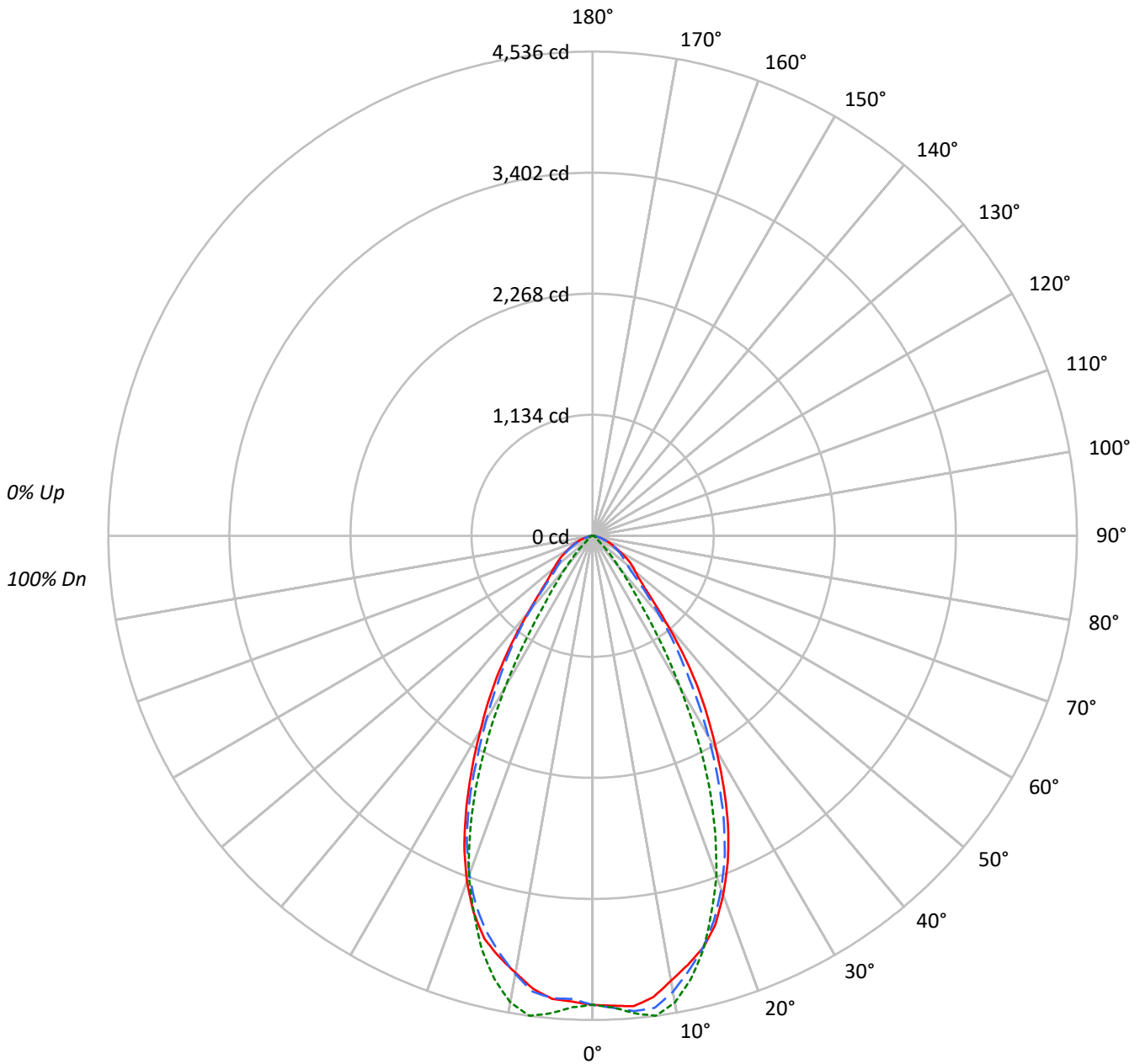
Lumens per Lamp: N/A
Luminaire Lumens: 4474.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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

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Luminous Intensity Polar Plot





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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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48																			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	240913	240913	240913
5°	243434	247127	239621
10°	235550	247123	231442
15°	226704	227595	221885
20°	208647	197697	200824
25°	181583	155894	169147
30°	146453	103579	132869
35°	113542	53405	99782
40°	77903	27673	67183
45°	53378	13862	47137
50°	44416	5910	40417
55°	39951	5123	36109
60°	31620	4901	30140
65°	26099	4345	25800
70°	21141	3943	21141
75°	15631	4257	16563
80°	9187	3536	9881
85°	7045	4214	7045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.3	9.4
10°-20°	1098.0	24.5
20°-30°	1253.3	28.0
30°-40°	831.1	18.6
40°-50°	400.9	9.0
50°-60°	246.6	5.5
60°-70°	149.2	3.3
70°-80°	62.8	1.4
80°-90°	13.9	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°	2769.6	61.9
0°-40°	3600.7	80.5
0°-60°	4248.2	95.0
0°-90°	4474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4474.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4395	4395	4395	4395	4395	
5°	4424	4471	4491	4348	4354	416
15°	3994	3994	4010	3840	3910	1113
25°	3002	2902	2577	2727	2796	1361
35°	1697	1495	798	1395	1491	1049
45°	688	604	179	563	608	561
55°	418	340	54	340	378	368
65°	201	192	34	181	199	202
75°	74	74	20	69	78	79
85°	11	16	7	11	11	14
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°	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6
2.5°	4405.8	4412.5	4425.9	4428.2	4421.5	4379.0	4343.2	4356.6	4367.8
5°	4423.7	4437.1	4470.7	4501.9	4490.8	4419.2	4347.7	4345.5	4354.4
7.5°	4358.9	4390.2	4459.5	4537.7	4535.5	4412.5	4307.5	4280.6	4280.6
10°	4231.5	4260.5	4336.5	4441.6	4439.4	4285.1	4168.9	4155.5	4157.7
12.5°	4117.5	4130.9	4168.9	4251.6	4251.6	4099.6	4010.2	4023.6	4041.5
15°	3994.5	4003.5	3994.5	4021.3	4010.2	3885.0	3840.3	3882.8	3909.6
17.5°	3820.2	3824.6	3777.7	3741.9	3699.5	3621.2	3632.4	3695.0	3701.7
20°	3576.5	3605.6	3520.6	3429.0	3388.8	3315.0	3377.6	3446.9	3442.4
22.5°	3308.3	3341.8	3232.3	3080.3	2997.6	2968.5	3080.3	3142.9	3140.6
25°	3002.0	3026.6	2901.5	2689.1	2577.3	2572.9	2727.1	2791.9	2796.4
27.5°	2657.8	2666.7	2525.9	2248.7	2110.1	2143.7	2338.1	2427.6	2438.7
30°	2313.6	2309.1	2163.8	1819.6	1636.3	1727.9	1989.4	2087.8	2099.0
32.5°	1998.4	1985.0	1819.6	1408.3	1189.2	1325.5	1669.8	1772.6	1790.5
35°	1696.6	1674.3	1495.4	1041.7	798.0	1001.4	1394.8	1484.3	1491.0
37.5°	1381.4	1370.3	1229.4	780.1	556.6	760.0	1137.8	1202.6	1195.9
40°	1088.6	1088.6	972.4	578.9	386.7	565.5	900.8	959.0	938.8
42.5°	853.9	865.1	766.7	426.9	274.9	420.2	713.1	766.7	744.4
45°	688.5	688.5	603.5	317.4	178.8	312.9	563.3	612.5	608.0
47.5°	583.4	574.5	489.5	232.5	98.4	234.7	473.9	534.2	532.0
50°	520.8	507.4	420.2	183.3	69.3	194.5	415.8	471.7	473.9
52.5°	471.7	451.5	377.8	163.2	60.4	169.9	377.8	422.5	422.5
55°	418.0	406.8	339.8	145.3	53.6	152.0	339.8	380.0	377.8
57.5°	353.2	350.9	304.0	131.9	49.2	134.1	304.0	328.6	319.7
60°	288.4	297.3	263.8	118.5	44.7	120.7	259.3	279.4	274.9
62.5°	241.4	252.6	230.2	105.1	38.0	107.3	219.1	239.2	234.7
65°	201.2	210.1	192.2	89.4	33.5	89.4	181.1	198.9	198.9
67.5°	165.4	172.1	158.7	73.8	29.1	73.8	147.5	163.2	165.4
70°	131.9	136.4	125.2	58.1	24.6	60.4	116.2	131.9	131.9
72.5°	102.8	105.1	98.4	46.9	22.4	46.9	89.4	102.8	102.8
75°	73.8	78.2	73.8	35.8	20.1	35.8	69.3	76.0	78.2
77.5°	42.5	53.6	53.6	29.1	15.6	26.8	49.2	51.4	51.4
80°	29.1	33.5	38.0	20.1	11.2	20.1	31.3	33.5	31.3
82.5°	20.1	22.4	22.4	13.4	8.9	13.4	20.1	22.4	20.1
85°	11.2	15.6	15.6	11.2	6.7	8.9	11.2	13.4	11.2
87.5°	6.7	8.9	11.2	8.9	6.7	6.7	6.7	6.7	4.5
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)