

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: P799450

Luminaire Tested: **LD6C20D010 EU6209040 6LBMDDWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799450  
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: LD6C20D010 EU6209040 6LBMDDWLI  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

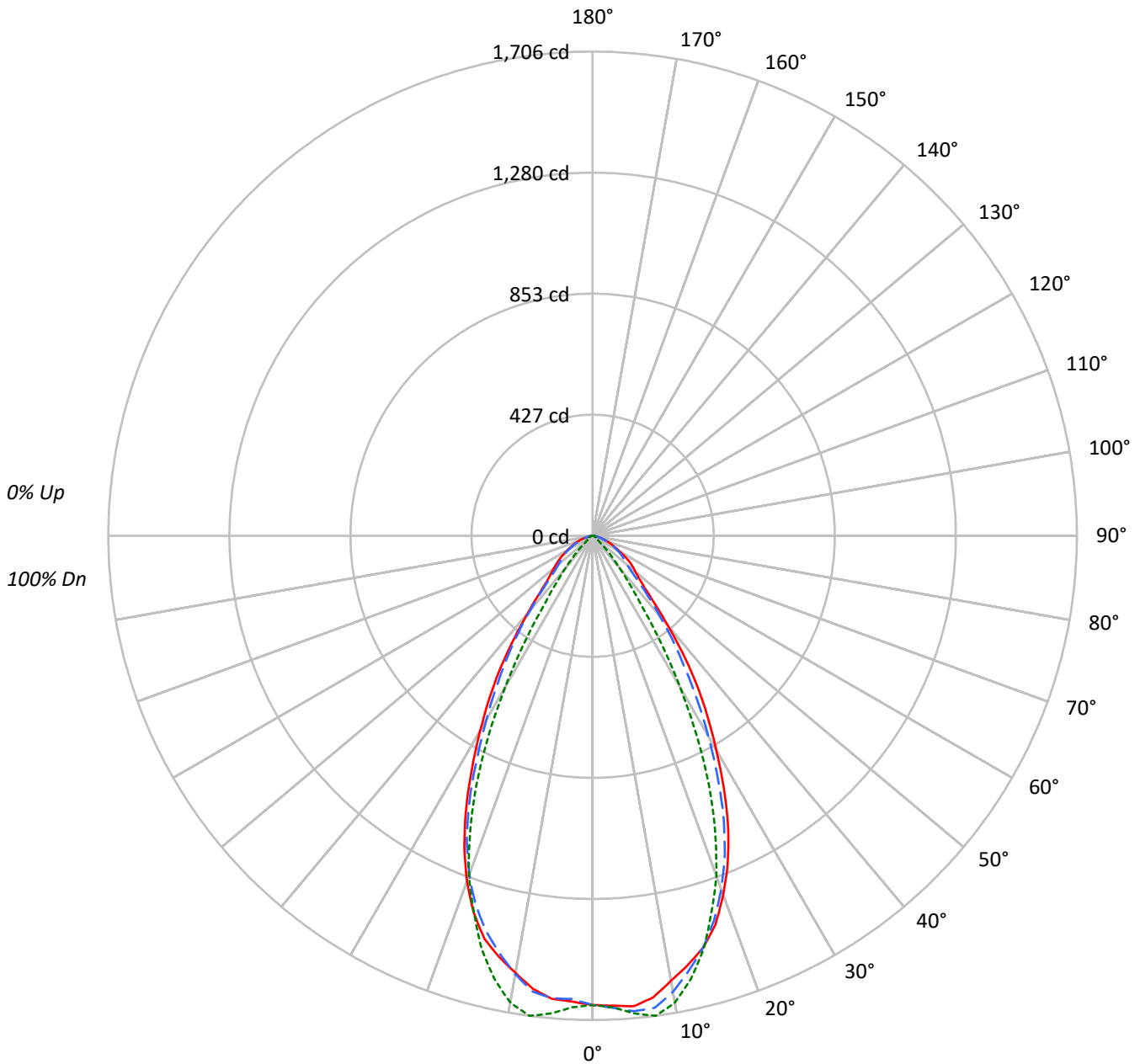
Lumens per Lamp: N/A  
Luminaire Lumens: 1683.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				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	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°	90629	90629	90629
5°	91575	92961	90138
10°	88609	92962	87061
15°	85279	85613	83468
20°	78488	74370	75542
25°	68308	58642	63627
30°	55091	38962	49982
35°	42710	20090	37537
40°	29305	10412	25276
45°	20080	5218	17731
50°	16707	2226	15206
55°	15025	1931	13581
60°	11896	1842	11337
65°	9819	1634	9703
70°	7950	1475	7950
75°	5867	1610	6227
80°	3441	1326	3725
85°	2642	1572	2642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	9.4
10°-20°	413.0	24.5
20°-30°	471.4	28.0
30°-40°	312.6	18.6
40°-50°	150.8	9.0
50°-60°	92.8	5.5
60°-70°	56.1	3.3
70°-80°	23.6	1.4
80°-90°	5.2	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°	1041.8	61.9
0°-40°	1354.5	80.5
0°-60°	1598.0	95.0
0°-90°	1683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1653	1653	1653	1653	1653	
5°	1664	1682	1689	1636	1638	156
15°	1503	1503	1508	1445	1471	419
25°	1129	1091	970	1026	1052	512
35°	638	562	300	525	561	395
45°	259	227	67	212	229	211
55°	157	128	20	128	142	138
65°	76	72	13	68	75	76
75°	28	28	8	26	29	30
85°	4	6	2	4	4	5
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°	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2	1653.2
2.5°	1657.4	1659.9	1664.9	1665.8	1663.2	1647.3	1633.8	1638.9	1643.1
5°	1664.1	1669.1	1681.7	1693.5	1689.3	1662.4	1635.5	1634.7	1638.0
7.5°	1639.7	1651.5	1677.5	1707.0	1706.1	1659.9	1620.4	1610.3	1610.3
10°	1591.8	1602.7	1631.3	1670.8	1670.0	1611.9	1568.2	1563.2	1564.0
12.5°	1548.9	1553.9	1568.2	1599.3	1599.3	1542.2	1508.5	1513.6	1520.3
15°	1502.6	1506.0	1502.6	1512.7	1508.5	1461.4	1444.6	1460.6	1470.7
17.5°	1437.0	1438.7	1421.1	1407.6	1391.6	1362.2	1366.4	1390.0	1392.5
20°	1345.4	1356.3	1324.4	1289.9	1274.8	1247.0	1270.6	1296.6	1294.9
22.5°	1244.5	1257.1	1215.9	1158.7	1127.6	1116.7	1158.7	1182.3	1181.4
25°	1129.3	1138.5	1091.4	1011.6	969.5	967.8	1025.9	1050.2	1051.9
27.5°	999.8	1003.2	950.2	845.9	793.8	806.4	879.5	913.2	917.4
30°	870.3	868.6	814.0	684.5	615.5	650.0	748.4	785.4	789.6
32.5°	751.7	746.7	684.5	529.7	447.3	498.6	628.1	666.8	673.5
35°	638.2	629.8	562.5	391.8	300.2	376.7	524.7	558.3	560.9
37.5°	519.7	515.5	462.5	293.5	209.4	285.9	428.0	452.4	449.9
40°	409.5	409.5	365.8	217.8	145.5	212.7	338.9	360.7	353.2
42.5°	321.2	325.4	288.4	160.6	103.4	158.1	268.2	288.4	280.0
45°	259.0	259.0	227.0	119.4	67.3	117.7	211.9	230.4	228.7
47.5°	219.5	216.1	184.2	87.5	37.0	88.3	178.3	201.0	200.1
50°	195.9	190.9	158.1	69.0	26.1	73.2	156.4	177.4	178.3
52.5°	177.4	169.9	142.1	61.4	22.7	63.9	142.1	158.9	158.9
55°	157.2	153.0	127.8	54.7	20.2	57.2	127.8	142.9	142.1
57.5°	132.9	132.0	114.4	49.6	18.5	50.5	114.4	123.6	120.2
60°	108.5	111.8	99.2	44.6	16.8	45.4	97.5	105.1	103.4
62.5°	90.8	95.0	86.6	39.5	14.3	40.4	82.4	90.0	88.3
65°	75.7	79.0	72.3	33.6	12.6	33.6	68.1	74.8	74.8
67.5°	62.2	64.7	59.7	27.7	10.9	27.7	55.5	61.4	62.2
70°	49.6	51.3	47.1	21.9	9.2	22.7	43.7	49.6	49.6
72.5°	38.7	39.5	37.0	17.7	8.4	17.7	33.6	38.7	38.7
75°	27.7	29.4	27.7	13.5	7.6	13.5	26.1	28.6	29.4
77.5°	16.0	20.2	20.2	10.9	5.9	10.1	18.5	19.3	19.3
80°	10.9	12.6	14.3	7.6	4.2	7.6	11.8	12.6	11.8
82.5°	7.6	8.4	8.4	5.0	3.4	5.0	7.6	8.4	7.6
85°	4.2	5.9	5.9	4.2	2.5	3.4	4.2	5.0	4.2
87.5°	2.5	3.4	4.2	3.4	2.5	2.5	2.5	2.5	1.7
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)