

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: P799414

Luminaire Tested: **LD6C20D010 EU6209027 6LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799414  
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 EU6209027 6LBMDDWLI  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

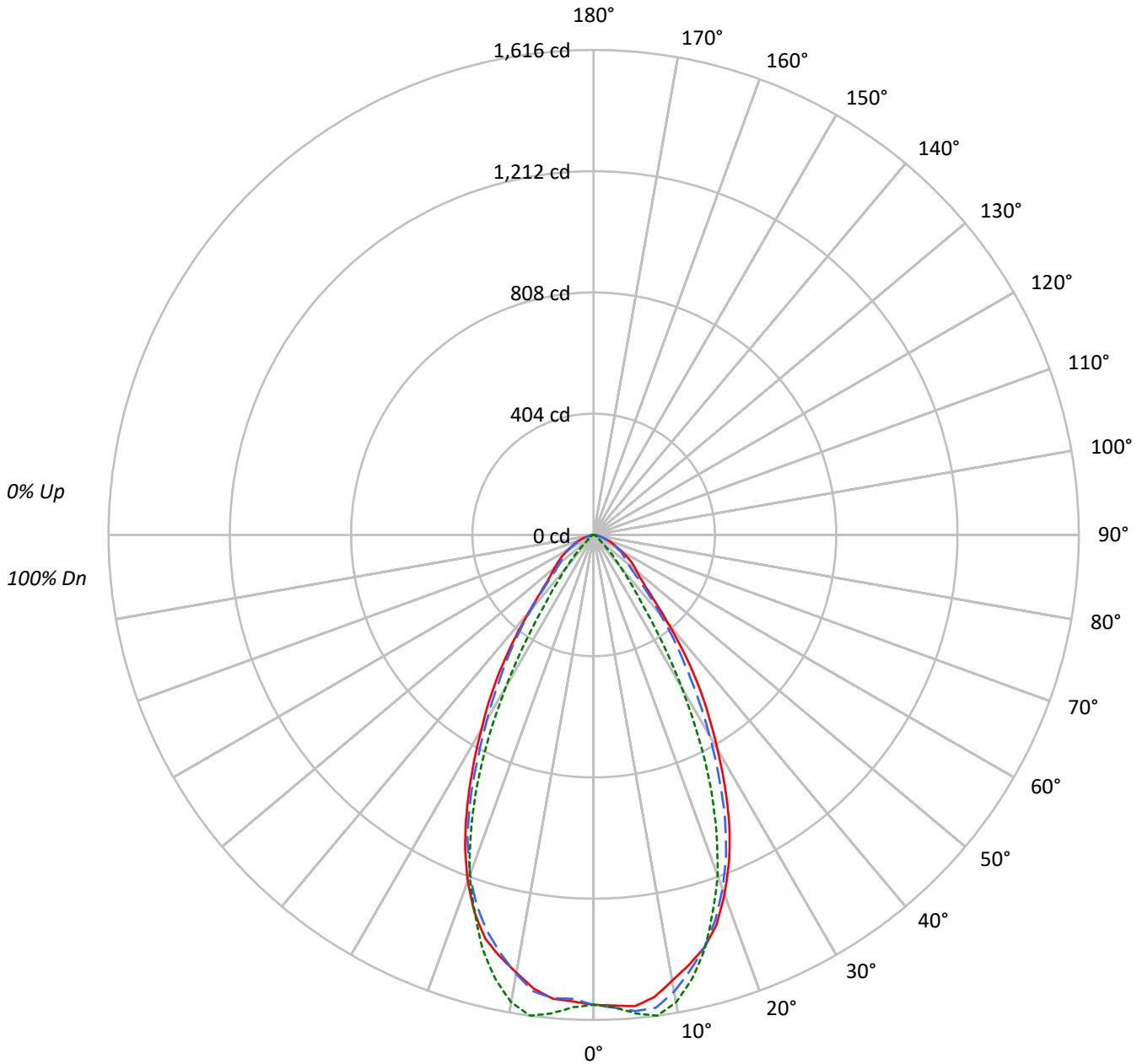
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1594.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 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°	85832	85832	85832
5°	86732	88047	85373
10°	83922	88047	82458
15°	80772	81084	79053
20°	74335	70432	71552
25°	64697	55546	60264
30°	52179	36904	47336
35°	40455	19026	35550
40°	27752	9861	23938
45°	19017	4938	16792
50°	15829	2107	14396
55°	14231	1826	12865
60°	11260	1743	10745
65°	9301	1544	9197
70°	7533	1410	7533
75°	5571	1525	5909
80°	3283	1263	3504
85°	2516	1510	2516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.0	9.4
10°-20°	391.2	24.5
20°-30°	446.5	28.0
30°-40°	296.1	18.6
40°-50°	142.8	9.0
50°-60°	87.9	5.5
60°-70°	53.2	3.3
70°-80°	22.4	1.4
80°-90°	5.0	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°	986.7	61.9
0°-40°	1282.9	80.5
0°-60°	1513.5	95.0
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1566	1566	1566	1566	1566	
5°	1576	1593	1600	1549	1551	148
15°	1423	1423	1429	1368	1393	397
25°	1070	1034	918	972	996	485
35°	604	533	284	497	531	374
45°	245	215	64	201	217	200
55°	149	121	19	121	135	131
65°	72	68	12	64	71	72
75°	26	26	7	25	28	28
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°	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7
2.5°	1569.7	1572.1	1576.9	1577.7	1575.3	1560.2	1547.4	1552.2	1556.2
5°	1576.1	1580.9	1592.8	1604.0	1600.0	1574.5	1549.0	1548.2	1551.4
7.5°	1553.0	1564.1	1588.8	1616.7	1615.9	1572.1	1534.7	1525.1	1525.1
10°	1507.6	1517.9	1545.0	1582.5	1581.7	1526.7	1485.3	1480.5	1481.3
12.5°	1467.0	1471.8	1485.3	1514.8	1514.8	1460.6	1428.7	1433.5	1439.9
15°	1423.2	1426.4	1423.2	1432.7	1428.7	1384.1	1368.2	1383.4	1392.9
17.5°	1361.1	1362.6	1345.9	1333.2	1318.0	1290.2	1294.2	1316.5	1318.8
20°	1274.2	1284.6	1254.3	1221.7	1207.3	1181.1	1203.4	1228.1	1226.5
22.5°	1178.7	1190.6	1151.6	1097.4	1068.0	1057.6	1097.4	1119.7	1118.9
25°	1069.6	1078.3	1033.7	958.1	918.3	916.7	971.6	994.7	996.3
27.5°	946.9	950.1	899.9	801.2	751.8	763.8	833.0	864.9	868.9
30°	824.3	822.7	770.9	648.3	583.0	615.6	708.8	743.8	747.8
32.5°	712.0	707.2	648.3	501.7	423.7	472.3	594.9	631.5	637.9
35°	604.5	596.5	532.8	371.1	284.3	356.8	497.0	528.8	531.2
37.5°	492.2	488.2	438.0	277.9	198.3	270.8	405.4	428.5	426.1
40°	387.8	387.8	346.4	206.3	137.8	201.5	321.0	341.7	334.5
42.5°	304.2	308.2	273.2	152.1	98.0	149.7	254.1	273.2	265.2
45°	245.3	245.3	215.0	113.1	63.7	111.5	200.7	218.2	216.6
47.5°	207.9	204.7	174.4	82.8	35.0	83.6	168.8	190.3	189.5
50°	185.6	180.8	149.7	65.3	24.7	69.3	148.1	168.0	168.8
52.5°	168.0	160.9	134.6	58.1	21.5	60.5	134.6	150.5	150.5
55°	148.9	144.9	121.1	51.8	19.1	54.2	121.1	135.4	134.6
57.5°	125.8	125.0	108.3	47.0	17.5	47.8	108.3	117.1	113.9
60°	102.7	105.9	94.0	42.2	15.9	43.0	92.4	99.6	98.0
62.5°	86.0	90.0	82.0	37.4	13.5	38.2	78.0	85.2	83.6
65°	71.7	74.9	68.5	31.9	11.9	31.9	64.5	70.9	70.9
67.5°	58.9	61.3	56.5	26.3	10.4	26.3	52.6	58.1	58.9
70°	47.0	48.6	44.6	20.7	8.8	21.5	41.4	47.0	47.0
72.5°	36.6	37.4	35.0	16.7	8.0	16.7	31.9	36.6	36.6
75°	26.3	27.9	26.3	12.7	7.2	12.7	24.7	27.1	27.9
77.5°	15.1	19.1	19.1	10.4	5.6	9.6	17.5	18.3	18.3
80°	10.4	11.9	13.5	7.2	4.0	7.2	11.1	11.9	11.1
82.5°	7.2	8.0	8.0	4.8	3.2	4.8	7.2	8.0	7.2
85°	4.0	5.6	5.6	4.0	2.4	3.2	4.0	4.8	4.0
87.5°	2.4	3.2	4.0	3.2	2.4	2.4	2.4	2.4	1.6
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)