

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: P799420

Luminaire Tested: **LD6C20D010 EU6209027 6LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799420  
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: LD6C20D010 EU6209027 6LBMDSWLI  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

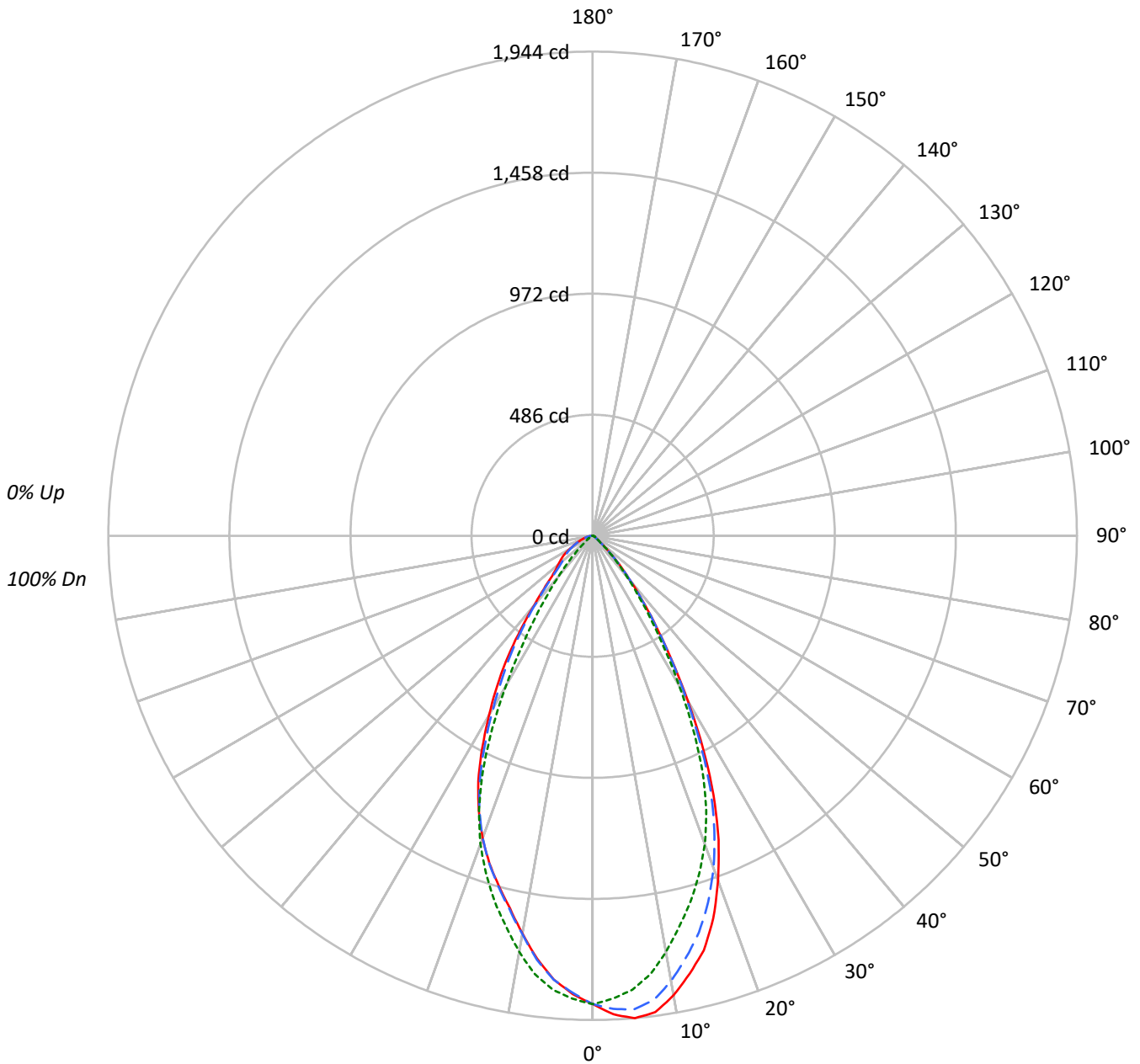
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1619.0 lumens  
Efficiency: N/A  
Efficacy: 74.3 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): 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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92								
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85								
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78								
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73								
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67								
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63								
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59								
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55								
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52								
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	103084	103084	103084
5°	107005	100666	98393
10°	104268	94426	90273
15°	97793	86283	82549
20°	85851	76808	75344
25°	69433	63106	65701
30°	48273	43956	52584
35°	29754	26930	39685
40°	16839	15093	26357
45°	8179	7799	17986
50°	3113	3113	15292
55°	1701	2017	14107
60°	1250	1601	11567
65°	1051	1362	9469
70°	914	1170	7806
75°	868	1207	6693
80°	505	1010	4862
85°	503	2013	4592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.1	10.6
10°-20°	432.7	26.7
20°-30°	487.1	30.1
30°-40°	301.6	18.6
40°-50°	120.1	7.4
50°-60°	54.7	3.4
60°-70°	31.4	1.9
70°-80°	14.9	0.9
80°-90°	4.3	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°	1091.9	67.4
0°-40°	1393.5	86.1
0°-60°	1568.3	96.9
0°-90°	1619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1880	1880	1880	1880	1880	
5°	1944	1909	1829	1790	1788	183
15°	1723	1648	1520	1459	1454	477
25°	1148	1117	1043	1069	1086	516
35°	445	442	402	561	593	286
45°	106	106	101	219	232	89
55°	18	17	21	130	148	18
65°	8	7	10	72	73	8
75°	4	4	6	31	32	4
85°	1	1	3	7	7	1
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°	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4	1880.4
2.5°	1923.4	1905.6	1901.5	1886.1	1860.2	1845.6	1836.6	1830.2	1841.5
5°	1944.5	1925.1	1908.8	1877.2	1829.3	1802.6	1789.6	1779.0	1788.0
7.5°	1929.1	1901.5	1879.6	1835.8	1775.0	1733.6	1715.8	1703.6	1711.7
10°	1873.1	1839.9	1814.7	1762.8	1696.3	1646.8	1624.9	1613.6	1621.7
12.5°	1800.1	1772.6	1734.4	1677.6	1606.2	1554.3	1538.1	1529.2	1532.4
15°	1723.1	1690.6	1648.4	1591.6	1520.3	1468.3	1458.6	1452.9	1454.5
17.5°	1611.1	1579.5	1543.0	1487.8	1422.1	1379.9	1379.9	1375.9	1378.3
20°	1471.6	1454.5	1418.9	1372.6	1316.6	1278.5	1290.7	1286.6	1291.5
22.5°	1320.7	1307.7	1276.9	1238.8	1191.7	1161.7	1188.5	1187.7	1194.1
25°	1147.9	1138.2	1117.1	1084.6	1043.3	1024.6	1069.2	1069.2	1086.2
27.5°	957.3	947.5	932.9	905.3	871.3	865.6	931.3	939.4	958.1
30°	762.6	756.1	748.0	722.8	694.4	705.0	795.8	809.6	830.7
32.5°	589.0	584.9	582.5	559.8	534.6	569.5	673.3	691.2	712.3
35°	444.6	435.6	442.1	425.1	402.4	446.2	560.6	576.0	593.0
37.5°	327.7	321.2	326.9	314.8	294.5	342.3	450.2	460.0	471.3
40°	235.3	229.6	234.4	227.1	210.9	255.5	352.9	363.4	368.3
42.5°	167.1	157.4	162.2	156.6	148.5	192.3	277.4	287.2	288.8
45°	105.5	102.2	105.5	102.2	100.6	142.8	219.0	228.0	232.0
47.5°	64.1	60.0	60.0	58.4	60.0	105.5	180.9	193.9	200.4
50°	36.5	34.9	34.1	33.3	36.5	82.7	156.6	171.2	179.3
52.5°	24.3	23.5	23.5	22.7	26.8	69.8	141.2	154.1	162.2
55°	17.8	17.0	17.0	17.0	21.1	60.0	129.8	140.3	147.6
57.5°	13.8	13.8	13.8	13.0	17.8	51.1	116.0	121.7	127.4
60°	11.4	10.5	10.5	10.5	14.6	43.8	99.8	102.2	105.5
62.5°	8.9	8.9	8.9	8.9	12.2	38.9	86.0	86.0	87.6
65°	8.1	7.3	7.3	7.3	10.5	34.1	72.2	71.4	73.0
67.5°	6.5	6.5	6.5	6.5	8.9	29.2	59.2	58.4	60.0
70°	5.7	5.7	5.7	5.7	7.3	24.3	47.9	47.1	48.7
72.5°	4.9	4.9	4.9	4.9	6.5	20.3	38.1	38.1	38.9
75°	4.1	4.1	4.1	4.1	5.7	15.4	30.8	30.8	31.6
77.5°	3.2	3.2	3.2	3.2	4.1	12.2	23.5	22.7	22.7
80°	1.6	2.4	2.4	2.4	3.2	8.9	17.0	15.4	15.4
82.5°	0.8	1.6	1.6	1.6	3.2	6.5	11.4	10.5	10.5
85°	0.8	0.8	0.8	2.4	3.2	4.9	7.3	7.3	7.3
87.5°	0.0	0.8	1.6	3.2	4.1	4.1	4.9	4.1	4.1
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)