

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: P799416

Luminaire Tested: **LD6C20D010 EU6209027 6LBMDDWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799416
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 6LBMDDWWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

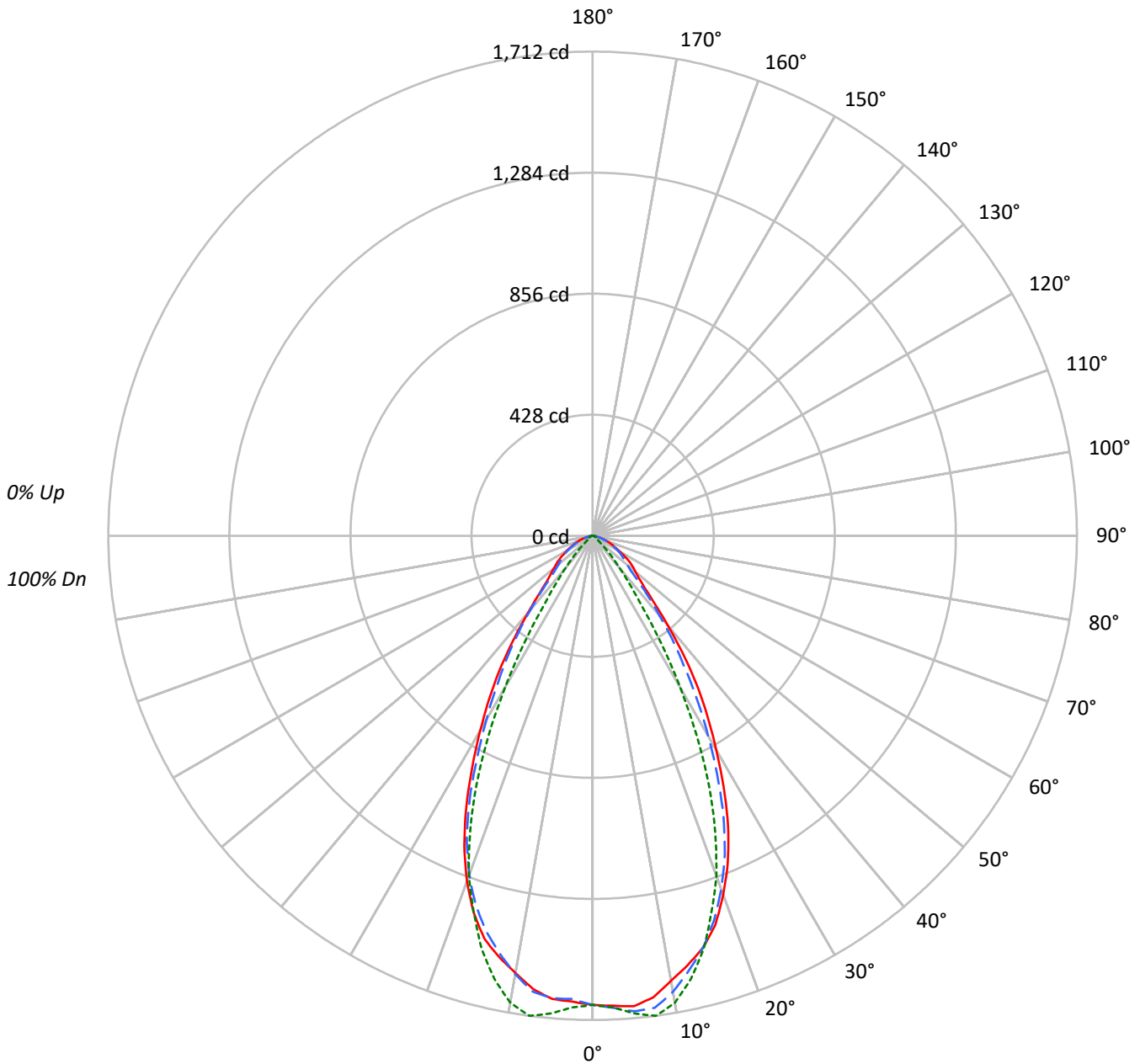
Lumens per Lamp: N/A
Luminaire Lumens: 1689.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): NR
Input Current (A_{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°	90947	90947	90947
5°	91899	93292	90463
10°	88921	93290	87373
15°	85585	85920	83763
20°	78769	74632	75817
25°	68550	58854	63857
30°	55287	39101	50160
35°	42864	20164	37671
40°	29412	10448	25362
45°	20149	5233	17793
50°	16767	2234	15257
55°	15082	1940	13629
60°	11940	1853	11381
65°	9845	1647	9742
70°	7982	1491	7982
75°	5888	1610	6248
80°	3473	1326	3725
85°	2642	1572	2642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	9.4
10°-20°	414.5	24.5
20°-30°	473.1	28.0
30°-40°	313.8	18.6
40°-50°	151.3	9.0
50°-60°	93.1	5.5
60°-70°	56.3	3.3
70°-80°	23.7	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°	1045.5	61.9
0°-40°	1359.3	80.5
0°-60°	1603.7	95.0
0°-90°	1689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1689.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1659	1659	1659	1659	1659	
5°	1670	1688	1695	1641	1644	157
15°	1508	1508	1514	1450	1476	420
25°	1133	1095	973	1030	1056	514
35°	640	564	301	527	563	396
45°	260	228	68	213	230	212
55°	158	128	20	128	143	139
65°	76	73	13	68	75	76
75°	28	28	8	26	30	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°	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0
2.5°	1663.3	1665.8	1670.9	1671.7	1669.2	1653.1	1639.6	1644.7	1648.9
5°	1670.0	1675.1	1687.7	1699.5	1695.3	1668.3	1641.3	1640.5	1643.9
7.5°	1645.5	1657.4	1683.5	1713.1	1712.2	1665.8	1626.1	1616.0	1616.0
10°	1597.4	1608.4	1637.1	1676.8	1675.9	1617.7	1573.8	1568.7	1569.6
12.5°	1554.4	1559.5	1573.8	1605.0	1605.0	1547.7	1513.9	1519.0	1525.7
15°	1508.0	1511.4	1508.0	1518.1	1513.9	1466.6	1449.8	1465.8	1475.9
17.5°	1442.2	1443.9	1426.1	1412.6	1396.6	1367.1	1371.3	1394.9	1397.4
20°	1350.2	1361.2	1329.1	1294.5	1279.3	1251.5	1275.1	1301.2	1299.6
22.5°	1248.9	1261.6	1220.2	1162.8	1131.6	1120.7	1162.8	1186.5	1185.6
25°	1133.3	1142.6	1095.3	1015.2	973.0	971.3	1029.5	1054.0	1055.7
27.5°	1003.4	1006.7	953.6	848.9	796.6	809.3	882.7	916.4	920.7
30°	873.4	871.7	816.9	686.9	617.7	652.3	751.0	788.2	792.4
32.5°	754.4	749.4	686.9	531.6	448.9	500.4	630.4	669.2	675.9
35°	640.5	632.1	564.5	393.2	301.3	378.1	526.6	560.3	562.9
37.5°	521.5	517.3	464.1	294.5	210.1	286.9	429.5	454.0	451.5
40°	411.0	411.0	367.1	218.6	146.0	213.5	340.1	362.0	354.4
42.5°	322.4	326.6	289.4	161.2	103.8	158.6	269.2	289.4	281.0
45°	259.9	259.9	227.8	119.8	67.5	118.1	212.7	231.2	229.5
47.5°	220.2	216.9	184.8	87.8	37.1	88.6	178.9	201.7	200.8
50°	196.6	191.6	158.6	69.2	26.2	73.4	157.0	178.1	178.9
52.5°	178.1	170.5	142.6	61.6	22.8	64.1	142.6	159.5	159.5
55°	157.8	153.6	128.3	54.9	20.3	57.4	128.3	143.5	142.6
57.5°	133.3	132.5	114.8	49.8	18.6	50.6	114.8	124.0	120.7
60°	108.9	112.2	99.6	44.7	16.9	45.6	97.9	105.5	103.8
62.5°	91.1	95.4	86.9	39.7	14.3	40.5	82.7	90.3	88.6
65°	75.9	79.3	72.6	33.8	12.7	33.8	68.4	75.1	75.1
67.5°	62.4	65.0	59.9	27.8	11.0	27.8	55.7	61.6	62.4
70°	49.8	51.5	47.3	21.9	9.3	22.8	43.9	49.8	49.8
72.5°	38.8	39.7	37.1	17.7	8.4	17.7	33.8	38.8	38.8
75°	27.8	29.5	27.8	13.5	7.6	13.5	26.2	28.7	29.5
77.5°	16.0	20.3	20.3	11.0	5.9	10.1	18.6	19.4	19.4
80°	11.0	12.7	14.3	7.6	4.2	7.6	11.8	12.7	11.8
82.5°	7.6	8.4	8.4	5.1	3.4	5.1	7.6	8.4	7.6
85°	4.2	5.9	5.9	4.2	2.5	3.4	4.2	5.1	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)