

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: P857135

Luminaire Tested: **LD4C20D010 EU4209030 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20D010 EU4209030 4LBMDSWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

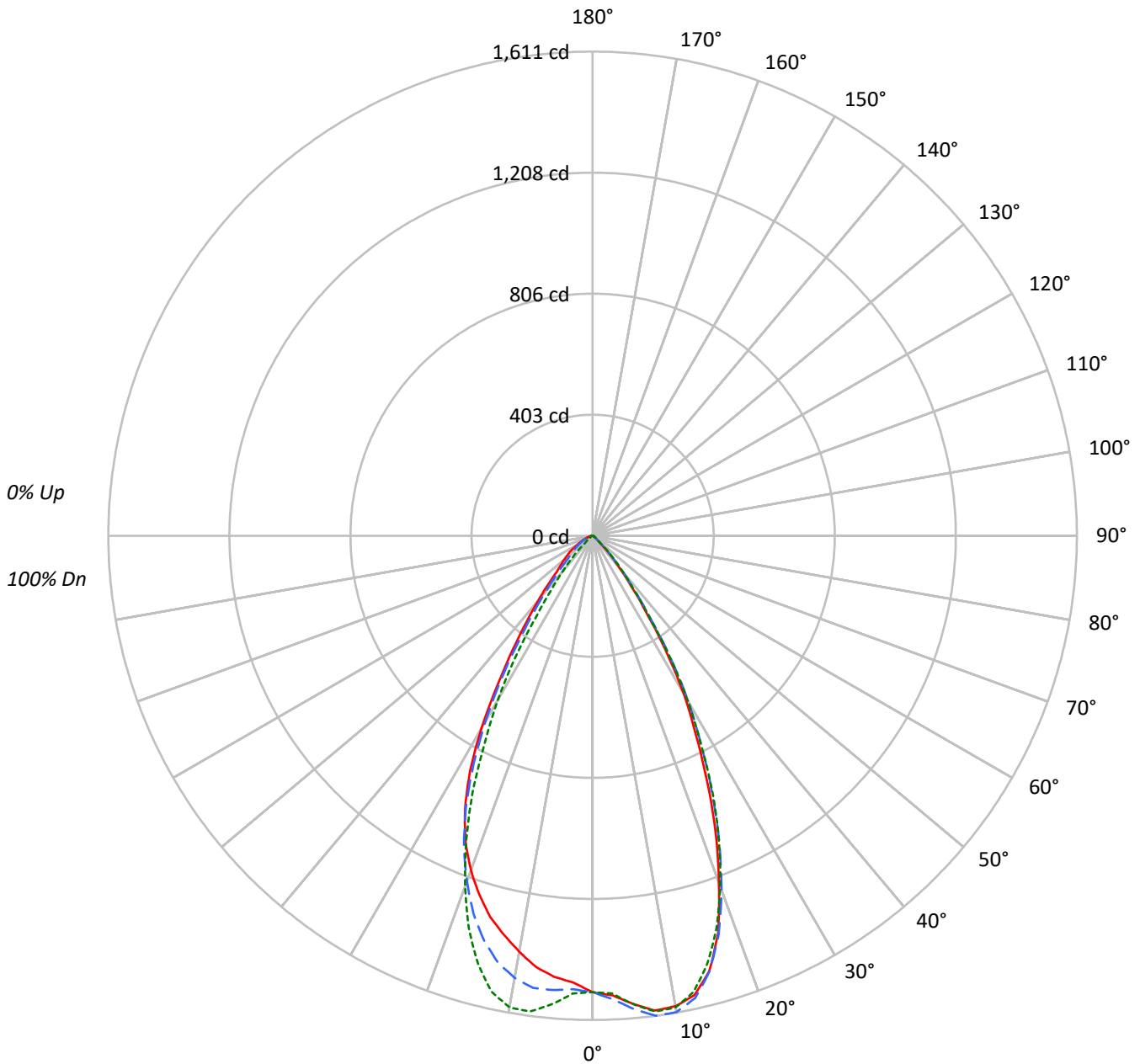
Lumens per Lamp: N/A
Luminaire Lumens: 1350.0 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	186541	186541	186541
5°	192901	193025	181617
10°	198238	198762	175297
15°	190743	187449	167086
20°	160612	162102	154768
25°	122012	128207	136232
30°	85810	89343	104834
35°	46298	48472	69364
40°	22340	24665	45001
45°	7940	10841	29258
50°	2982	3765	23432
55°	2228	2677	19363
60°	1794	2039	14054
65°	1512	1802	10872
70°	1114	1509	8585
75°	997	1471	6408
80°	707	1486	4386
85°	0	1410	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	11.0
10°-20°	398.8	29.5
20°-30°	432.6	32.0
30°-40°	240.0	17.8
40°-50°	76.4	5.7
50°-60°	30.8	2.3
60°-70°	15.6	1.2
70°-80°	6.4	0.5
80°-90°	1.3	0.1
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°	979.3	72.5
0°-40°	1219.4	90.3
0°-60°	1326.6	98.3
0°-90°	1350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1350.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1518	1518	1518	1518	1518	
5°	1564	1581	1565	1517	1473	150
15°	1500	1501	1474	1395	1314	410
25°	900	938	946	997	1005	411
35°	309	334	323	427	462	205
45°	46	54	62	139	168	44
55°	10	10	12	66	90	9
65°	5	5	6	30	37	5
75°	2	2	3	10	14	2
85°	0	0	1	2	2	0
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°	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4	1518.4
2.5°	1530.9	1544.4	1543.4	1533.0	1524.7	1521.6	1510.1	1496.6	1487.3
5°	1564.2	1580.8	1580.8	1572.5	1565.2	1547.5	1517.4	1488.3	1472.7
7.5°	1593.3	1609.9	1610.9	1604.7	1596.4	1567.3	1517.4	1470.6	1446.7
10°	1589.1	1601.6	1608.9	1602.6	1593.3	1554.8	1493.5	1431.1	1405.2
12.5°	1565.2	1576.6	1575.6	1566.3	1553.8	1514.3	1454.0	1389.6	1360.5
15°	1499.7	1506.0	1500.8	1490.4	1473.8	1443.6	1394.8	1339.7	1313.7
17.5°	1386.5	1394.8	1392.7	1376.1	1369.8	1340.7	1317.9	1275.2	1252.4
20°	1228.5	1254.5	1254.5	1242.0	1239.9	1220.2	1223.3	1200.4	1183.8
22.5°	1069.5	1092.3	1099.6	1094.4	1098.6	1089.2	1118.3	1112.1	1103.8
25°	900.1	922.9	937.5	935.4	945.8	945.8	996.7	1009.2	1005.0
27.5°	741.0	762.9	779.5	783.6	777.4	788.8	858.5	883.4	883.4
30°	604.9	622.6	638.1	638.1	629.8	638.1	711.9	741.0	739.0
32.5°	451.1	470.8	485.4	483.3	476.0	487.4	565.4	594.5	587.2
35°	308.7	322.2	333.6	329.5	323.2	341.9	427.2	463.5	462.5
37.5°	208.9	221.4	228.7	225.5	223.5	245.3	323.2	363.8	361.7
40°	139.3	147.6	152.8	151.7	153.8	172.5	243.2	280.6	280.6
42.5°	88.3	93.5	98.7	98.7	103.9	123.7	185.0	217.2	217.2
45°	45.7	48.8	54.0	57.2	62.4	83.1	139.3	166.3	168.4
47.5°	21.8	22.9	24.9	26.0	30.1	52.0	107.0	136.2	142.4
50°	15.6	16.6	16.6	16.6	19.7	39.5	90.4	117.4	122.6
52.5°	12.5	12.5	12.5	13.5	15.6	33.3	77.9	101.9	106.0
55°	10.4	10.4	10.4	10.4	12.5	27.0	66.5	87.3	90.4
57.5°	8.3	8.3	8.3	8.3	10.4	21.8	55.1	69.6	70.7
60°	7.3	7.3	7.3	7.3	8.3	18.7	44.7	57.2	57.2
62.5°	6.2	6.2	6.2	6.2	7.3	15.6	37.4	46.8	45.7
65°	5.2	5.2	5.2	5.2	6.2	12.5	30.1	37.4	37.4
67.5°	4.2	4.2	4.2	4.2	5.2	10.4	23.9	30.1	30.1
70°	3.1	3.1	3.1	3.1	4.2	8.3	19.7	23.9	23.9
72.5°	3.1	3.1	3.1	3.1	3.1	6.2	14.6	18.7	17.7
75°	2.1	2.1	2.1	2.1	3.1	5.2	10.4	13.5	13.5
77.5°	2.1	2.1	2.1	2.1	2.1	4.2	8.3	9.4	9.4
80°	1.0	1.0	1.0	1.0	2.1	3.1	5.2	6.2	6.2
82.5°	0.0	1.0	0.0	1.0	1.0	2.1	4.2	4.2	4.2
85°	0.0	0.0	0.0	0.0	1.0	1.0	2.1	3.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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)