

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: P857390

Luminaire Tested: **LD4C25D010 EU4259040 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EU4259040 4LBMDDWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

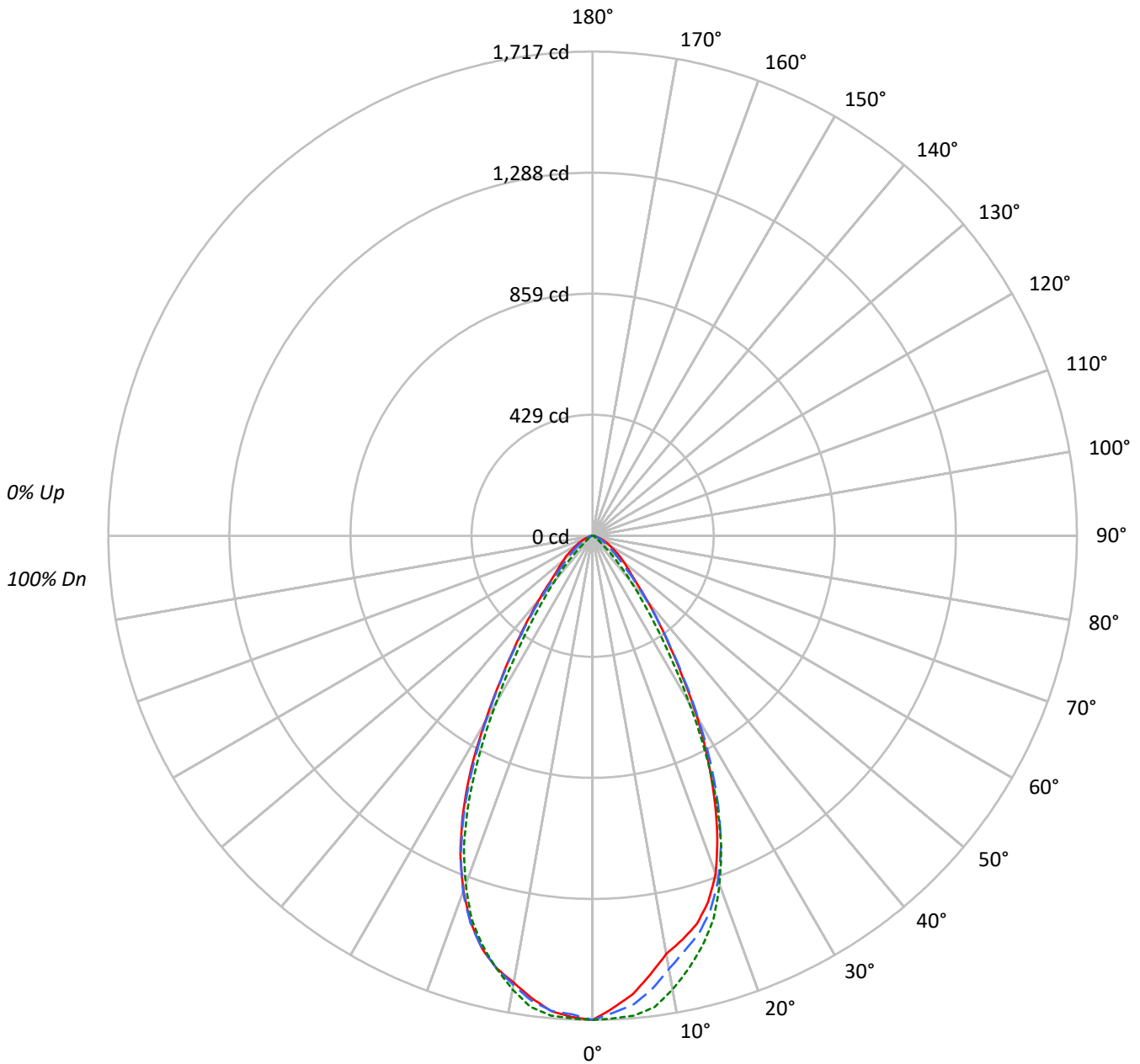
Lumens per Lamp: N/A
Luminaire Lumens: 1563.0 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	210927	210927	210927
5°	201275	210598	208625
10°	187722	203765	200783
15°	181280	191391	192740
20°	166743	171947	175071
25°	138211	140718	147550
30°	105132	97230	108139
35°	71179	58266	71974
40°	48481	33390	46990
45°	33636	16818	31795
50°	27369	6842	25592
55°	22147	4262	20155
60°	17593	3268	15971
65°	13866	2703	12326
70°	10489	2371	9519
75°	7547	1899	6930
80°	5660	1910	4669
85°	3806	1832	3806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	10.1
10°-20°	414.8	26.5
20°-30°	475.9	30.4
30°-40°	289.1	18.5
40°-50°	123.9	7.9
50°-60°	59.4	3.8
60°-70°	28.9	1.8
70°-80°	10.7	0.7
80°-90°	2.5	0.2
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°	1048.5	67.1
0°-40°	1337.6	85.6
0°-60°	1520.9	97.3
0°-90°	1563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1563.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1717	1717	1717	1717	1717	
5°	1632	1668	1708	1690	1692	152
15°	1425	1458	1505	1514	1515	397
25°	1020	1053	1038	1078	1088	463
35°	475	481	388	469	480	304
45°	194	172	97	155	183	157
55°	103	77	20	69	94	93
65°	48	32	9	29	42	48
75°	16	11	4	9	15	17
85°	3	3	1	1	3	4
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°	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9
2.5°	1675.8	1694.4	1693.1	1709.0	1713.0	1709.0	1698.4	1709.0	1707.7
5°	1632.1	1653.3	1667.9	1694.4	1707.7	1705.0	1690.4	1693.1	1691.7
7.5°	1568.4	1595.0	1620.1	1659.9	1685.1	1683.8	1662.6	1658.6	1653.3
10°	1504.8	1530.0	1559.2	1600.3	1633.4	1638.7	1617.5	1612.2	1609.5
12.5°	1467.7	1487.6	1507.5	1543.3	1572.4	1583.0	1571.1	1572.4	1571.1
15°	1425.3	1445.1	1458.4	1484.9	1504.8	1519.4	1514.1	1522.0	1515.4
17.5°	1361.6	1385.5	1390.8	1410.7	1425.3	1434.5	1439.8	1447.8	1437.2
20°	1275.4	1294.0	1300.6	1308.6	1315.2	1327.1	1343.1	1351.0	1339.1
22.5°	1154.8	1190.6	1189.3	1185.3	1191.9	1195.9	1221.1	1234.3	1225.1
25°	1019.6	1056.7	1052.7	1036.8	1038.1	1046.1	1077.9	1095.1	1088.5
27.5°	877.7	912.2	902.9	872.4	864.4	876.4	917.5	937.4	933.4
30°	741.1	763.7	749.1	694.7	685.4	700.0	753.1	773.0	762.3
32.5°	594.0	611.2	604.6	538.3	522.4	537.0	599.3	617.8	605.9
35°	474.6	490.6	481.3	403.0	388.5	404.4	469.3	490.6	479.9
37.5°	380.5	392.4	380.5	297.0	283.7	299.6	361.9	389.8	376.5
40°	302.3	311.6	295.7	218.8	208.2	216.1	274.4	302.3	293.0
42.5°	238.6	245.3	228.0	160.4	148.5	159.1	206.8	232.0	226.7
45°	193.6	193.6	172.4	111.4	96.8	107.4	155.1	181.6	183.0
47.5°	165.7	161.7	135.2	74.2	55.7	70.3	123.3	151.1	155.1
50°	143.2	137.9	111.4	54.4	35.8	50.4	102.1	129.9	133.9
52.5°	123.3	119.3	92.8	42.4	25.2	38.4	86.2	112.7	116.7
55°	103.4	100.8	76.9	33.1	19.9	29.2	68.9	91.5	94.1
57.5°	84.9	80.9	62.3	27.8	15.9	23.9	57.0	75.6	78.2
60°	71.6	67.6	50.4	22.5	13.3	18.6	46.4	62.3	65.0
62.5°	59.7	55.7	41.1	18.6	10.6	15.9	37.1	50.4	53.0
65°	47.7	45.1	31.8	14.6	9.3	11.9	29.2	39.8	42.4
67.5°	38.4	35.8	25.2	11.9	8.0	9.3	22.5	31.8	34.5
70°	29.2	26.5	18.6	9.3	6.6	8.0	17.2	23.9	26.5
72.5°	21.2	19.9	14.6	8.0	5.3	6.6	11.9	17.2	19.9
75°	15.9	14.6	10.6	5.3	4.0	5.3	9.3	13.3	14.6
77.5°	10.6	10.6	8.0	4.0	4.0	4.0	6.6	9.3	9.3
80°	8.0	6.6	5.3	2.7	2.7	2.7	4.0	6.6	6.6
82.5°	5.3	4.0	4.0	2.7	2.7	2.7	2.7	4.0	4.0
85°	2.7	2.7	2.7	1.3	1.3	1.3	1.3	2.7	2.7
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)