

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: P856923

Luminaire Tested: **LD4C15D010 EU4159030 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856923
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: LD4C15D010 EU4159030 4LBMDSWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

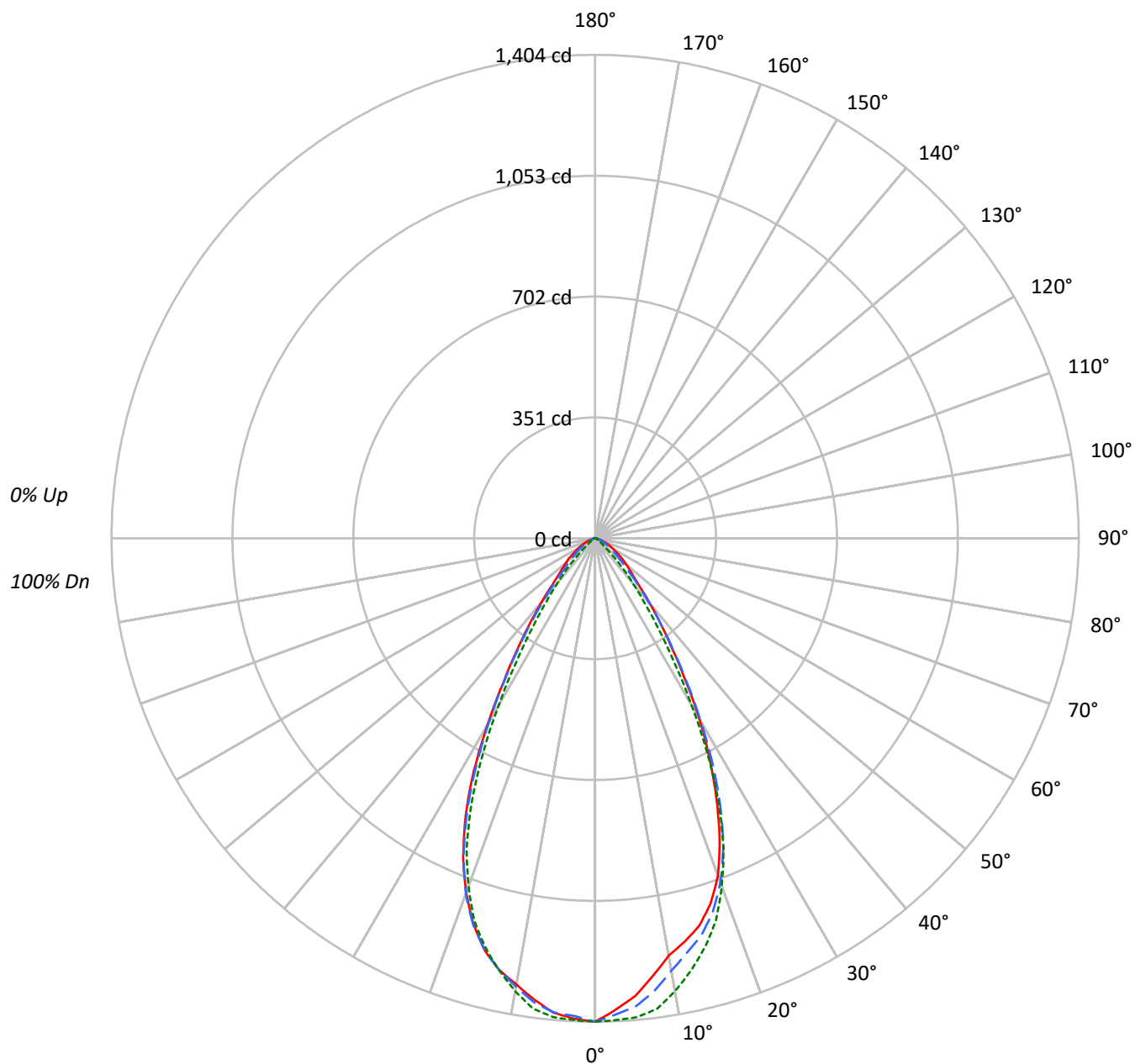
Lumens per Lamp: N/A
Luminaire Lumens: 1278.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P856923

CATALOG NUMBER: LD4C15D010 EU4159030 4LBMDSWH

Luminous Intensity Polar Plot





TEST NUMBER: P856923

CATALOG NUMBER: LD4C15D010 EU4159030 4LBMDSWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	111	108	105	103	104	102	100	100	99	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	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	172474	172474	172474
5°	164574	172196	170592
10°	153491	166614	164182
15°	148224	156491	157598
20°	136347	140596	143145
25°	112998	115058	120643
30°	85967	79512	88421
35°	58206	47633	58851
40°	39644	27296	38426
45°	27503	13743	25992
50°	22381	5600	20928
55°	18120	3491	16493
60°	14374	2654	13047
65°	11337	2209	10087
70°	8549	1940	7795
75°	6171	1566	5649
80°	4599	1556	3820
85°	3101	1551	3101



TEST NUMBER: P856923

CATALOG NUMBER: LD4C15D010 EU4159030 4LBMDSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	10.1
10°-20°	339.1	26.5
20°-30°	389.1	30.4
30°-40°	236.4	18.5
40°-50°	101.3	7.9
50°-60°	48.6	3.8
60°-70°	23.6	1.8
70°-80°	8.8	0.7
80°-90°	2.0	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°	857.3	67.1
0°-40°	1093.7	85.6
0°-60°	1243.6	97.3
0°-90°	1278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1404	1404	1404	1404	1404	
5°	1334	1364	1396	1382	1383	124
15°	1165	1192	1230	1238	1239	324
25°	834	861	849	881	890	378
35°	388	394	318	384	392	249
45°	158	141	79	127	150	129
55°	85	63	16	56	77	76
65°	39	26	8	24	35	40
75°	13	9	3	8	12	14
85°	2	2	1	1	2	3
90°	0	0	0	0	0	



TEST NUMBER: P856923

CATALOG NUMBER: LD4C15D010 EU4159030 4LBMDSWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9
2.5°	1370.3	1385.4	1384.4	1397.4	1400.6	1397.4	1388.7	1397.4	1396.3
5°	1334.5	1351.8	1363.8	1385.4	1396.3	1394.1	1382.2	1384.4	1383.3
7.5°	1282.4	1304.1	1324.7	1357.2	1377.8	1376.8	1359.4	1356.2	1351.8
10°	1230.4	1251.0	1274.9	1308.5	1335.6	1339.9	1322.6	1318.2	1316.1
12.5°	1200.1	1216.3	1232.6	1261.9	1285.7	1294.4	1284.6	1285.7	1284.6
15°	1165.4	1181.6	1192.5	1214.2	1230.4	1242.3	1238.0	1244.5	1239.1
17.5°	1113.3	1132.8	1137.2	1153.4	1165.4	1173.0	1177.3	1183.8	1175.1
20°	1042.9	1058.0	1063.5	1070.0	1075.4	1085.1	1098.2	1104.7	1094.9
22.5°	944.2	973.5	972.4	969.2	974.6	977.8	998.4	1009.3	1001.7
25°	833.6	864.0	860.7	847.7	848.8	855.3	881.3	895.4	890.0
27.5°	717.7	745.8	738.2	713.3	706.8	716.6	750.2	766.4	763.2
30°	606.0	624.4	612.5	568.1	560.5	572.4	615.7	632.0	623.3
32.5°	485.7	499.8	494.3	440.1	427.1	439.0	490.0	505.2	495.4
35°	388.1	401.1	393.5	329.6	317.6	330.6	383.8	401.1	392.4
37.5°	311.1	320.9	311.1	242.8	232.0	245.0	295.9	318.7	307.9
40°	247.2	254.8	241.7	178.9	170.2	176.7	224.4	247.2	239.6
42.5°	195.1	200.6	186.5	131.2	121.4	130.1	169.1	189.7	185.4
45°	158.3	158.3	140.9	91.1	79.1	87.8	126.8	148.5	149.6
47.5°	135.5	132.3	110.6	60.7	45.5	57.5	100.8	123.6	126.8
50°	117.1	112.7	91.1	44.4	29.3	41.2	83.5	106.2	109.5
52.5°	100.8	97.6	75.9	34.7	20.6	31.4	70.5	92.1	95.4
55°	84.6	82.4	62.9	27.1	16.3	23.8	56.4	74.8	77.0
57.5°	69.4	66.1	51.0	22.8	13.0	19.5	46.6	61.8	64.0
60°	58.5	55.3	41.2	18.4	10.8	15.2	37.9	51.0	53.1
62.5°	48.8	45.5	33.6	15.2	8.7	13.0	30.4	41.2	43.4
65°	39.0	36.9	26.0	11.9	7.6	9.8	23.8	32.5	34.7
67.5°	31.4	29.3	20.6	9.8	6.5	7.6	18.4	26.0	28.2
70°	23.8	21.7	15.2	7.6	5.4	6.5	14.1	19.5	21.7
72.5°	17.3	16.3	11.9	6.5	4.3	5.4	9.8	14.1	16.3
75°	13.0	11.9	8.7	4.3	3.3	4.3	7.6	10.8	11.9
77.5°	8.7	8.7	6.5	3.3	3.3	3.3	5.4	7.6	7.6
80°	6.5	5.4	4.3	2.2	2.2	2.2	3.3	5.4	5.4
82.5°	4.3	3.3	3.3	2.2	2.2	2.2	2.2	3.3	3.3
85°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)