

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: P856946

Luminaire Tested: **LD4C15D010 EU4159035 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856946
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 EU4159035 4LBMDSWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

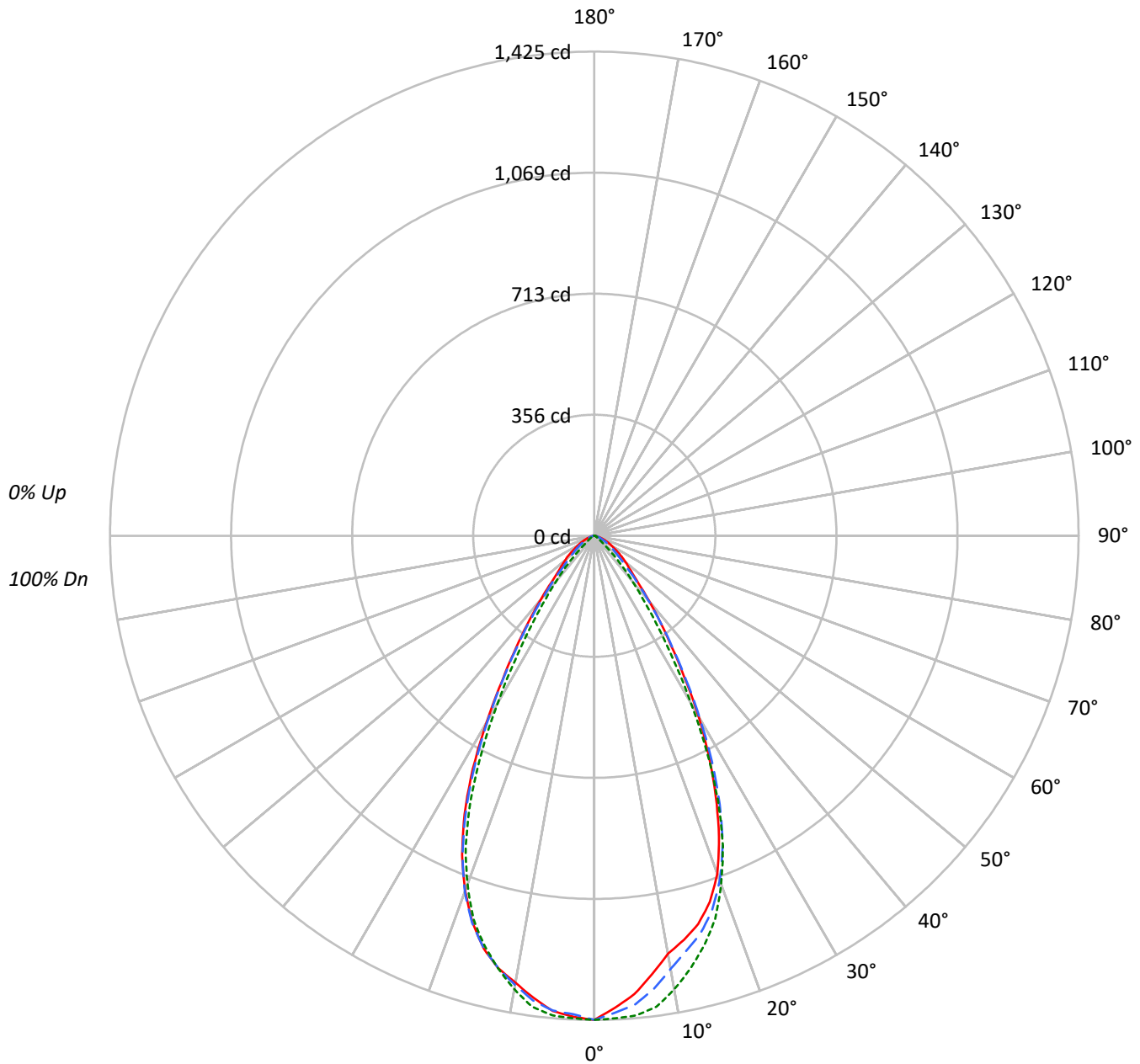
Lumens per Lamp: N/A
Luminaire Lumens: 1297.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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
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°	175029	175029	175029
5°	167016	174748	173120
10°	155774	169084	166614
15°	150424	158819	159938
20°	138373	142687	145276
25°	114679	116766	122432
30°	87243	80689	89740
35°	59076	48352	59736
40°	40222	27697	38987
45°	27903	13951	26374
50°	22706	5676	21234
55°	18377	3534	16728
60°	14595	2703	13244
65°	11512	2238	10233
70°	8693	1976	7902
75°	6266	1566	5743
80°	4669	1556	3891
85°	3101	1551	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	10.1
10°-20°	344.2	26.5
20°-30°	394.9	30.4
30°-40°	239.9	18.5
40°-50°	102.8	7.9
50°-60°	49.3	3.8
60°-70°	24.0	1.8
70°-80°	8.9	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°	870.0	67.1
0°-40°	1109.9	85.6
0°-60°	1262.0	97.3
0°-90°	1297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1425	1425	1425	1425	1425	
5°	1354	1384	1417	1403	1404	126
15°	1183	1210	1249	1256	1258	329
25°	846	874	861	894	903	384
35°	394	399	322	390	398	252
45°	161	143	80	129	152	130
55°	86	64	16	57	78	77
65°	40	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7	1424.7
2.5°	1390.6	1406.0	1404.9	1418.1	1421.4	1418.1	1409.3	1418.1	1417.0
5°	1354.3	1371.9	1384.0	1406.0	1417.0	1414.8	1402.7	1404.9	1403.8
7.5°	1301.5	1323.5	1344.4	1377.4	1398.3	1397.2	1379.6	1376.3	1371.9
10°	1248.7	1269.6	1293.8	1327.9	1355.4	1359.8	1342.2	1337.8	1335.6
12.5°	1217.9	1234.4	1250.9	1280.6	1304.8	1313.6	1303.7	1304.8	1303.7
15°	1182.7	1199.2	1210.2	1232.2	1248.7	1260.8	1256.4	1263.0	1257.5
17.5°	1129.9	1149.7	1154.1	1170.6	1182.7	1190.4	1194.8	1201.4	1192.6
20°	1058.4	1073.8	1079.3	1085.9	1091.4	1101.3	1114.5	1121.1	1111.2
22.5°	958.3	988.0	986.9	983.6	989.1	992.4	1013.3	1024.3	1016.6
25°	846.0	876.8	873.5	860.3	861.4	868.0	894.4	908.8	903.2
27.5°	728.3	756.9	749.2	723.9	717.3	727.2	761.3	777.8	774.5
30°	615.0	633.7	621.6	576.5	568.8	580.9	624.9	641.4	632.6
32.5°	492.9	507.2	501.7	446.7	433.5	445.6	497.3	512.7	502.8
35°	393.9	407.1	399.4	334.5	322.4	335.6	389.5	407.1	398.3
37.5°	315.8	325.7	315.8	246.4	235.4	248.6	300.3	323.5	312.5
40°	250.8	258.5	245.3	181.5	172.7	179.3	227.7	250.8	243.1
42.5°	198.0	203.5	189.2	133.1	123.2	132.0	171.6	192.5	188.1
45°	160.6	160.6	143.0	92.4	80.3	89.1	128.7	150.7	151.8
47.5°	137.5	134.2	112.2	61.6	46.2	58.3	102.3	125.4	128.7
50°	118.8	114.4	92.4	45.1	29.7	41.8	84.7	107.8	111.1
52.5°	102.3	99.0	77.0	35.2	20.9	31.9	71.5	93.5	96.8
55°	85.8	83.6	63.8	27.5	16.5	24.2	57.2	75.9	78.1
57.5°	70.4	67.1	51.7	23.1	13.2	19.8	47.3	62.7	64.9
60°	59.4	56.1	41.8	18.7	11.0	15.4	38.5	51.7	53.9
62.5°	49.5	46.2	34.1	15.4	8.8	13.2	30.8	41.8	44.0
65°	39.6	37.4	26.4	12.1	7.7	9.9	24.2	33.0	35.2
67.5°	31.9	29.7	20.9	9.9	6.6	7.7	18.7	26.4	28.6
70°	24.2	22.0	15.4	7.7	5.5	6.6	14.3	19.8	22.0
72.5°	17.6	16.5	12.1	6.6	4.4	5.5	9.9	14.3	16.5
75°	13.2	12.1	8.8	4.4	3.3	4.4	7.7	11.0	12.1
77.5°	8.8	8.8	6.6	3.3	3.3	3.3	5.5	7.7	7.7
80°	6.6	5.5	4.4	2.2	2.2	2.2	3.3	5.5	5.5
82.5°	4.4	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)