

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: P856995

Luminaire Tested: **LD4C15D010 EU4159050 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856995
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 EU4159050 4LBMDSWWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

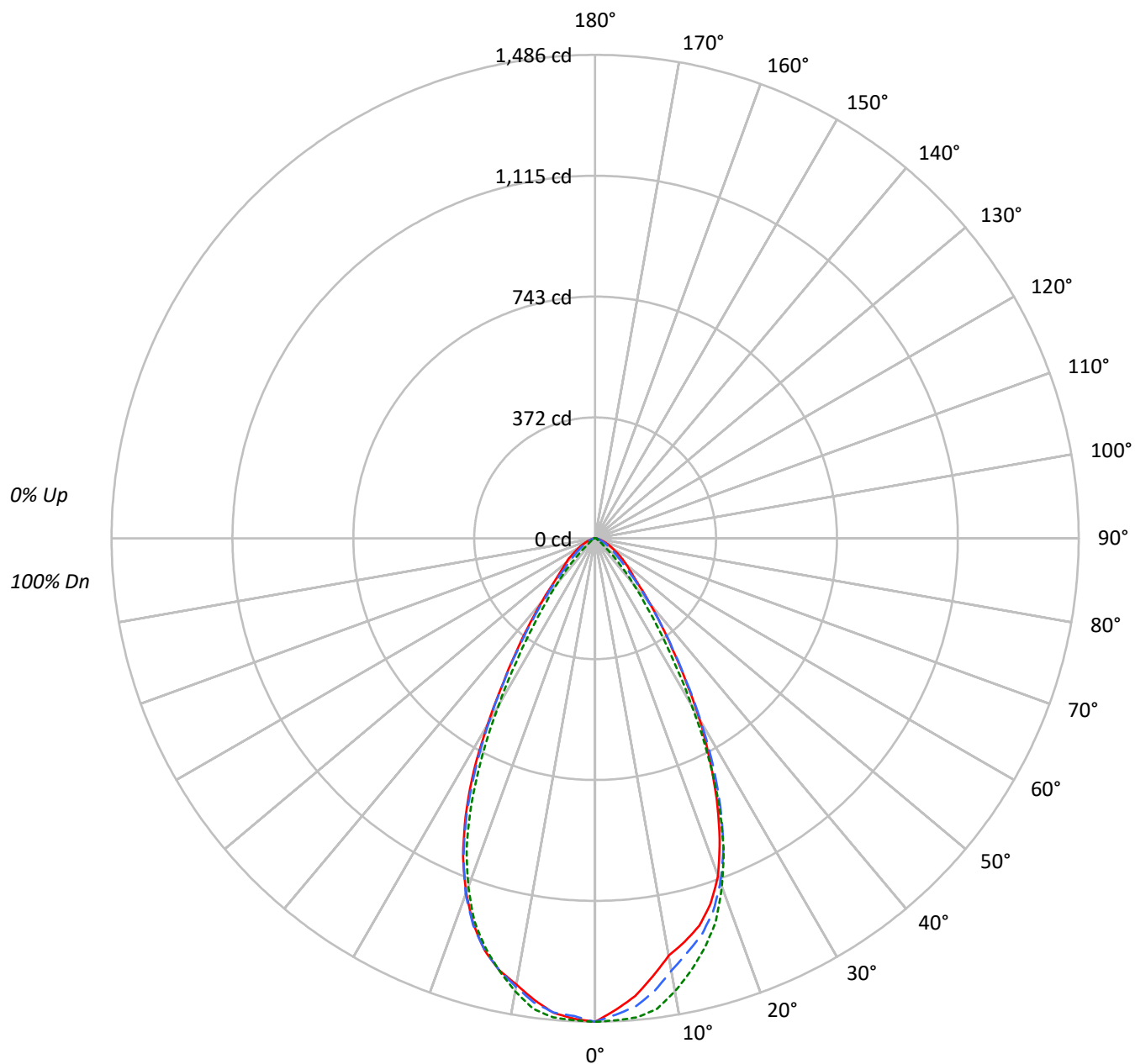
Lumens per Lamp: N/A
Luminaire Lumens: 1353.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	182597	182597	182597
5°	174230	182296	180594
10°	162498	176382	173812
15°	156924	165674	166844
20°	144348	148845	151551
25°	119640	121809	127719
30°	91017	84179	93613
35°	61625	50437	62315
40°	41970	28899	40671
45°	29119	14560	27521
50°	23681	5925	22152
55°	19170	3684	17456
60°	15234	2826	13809
65°	12006	2326	10669
70°	9052	2047	8262
75°	6550	1614	5981
80°	4882	1627	4033
85°	3242	1551	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	10.1
10°-20°	359.0	26.5
20°-30°	411.9	30.4
30°-40°	250.2	18.5
40°-50°	107.2	7.9
50°-60°	51.5	3.8
60°-70°	25.0	1.8
70°-80°	9.3	0.7
80°-90°	2.1	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°	907.6	67.1
0°-40°	1157.9	85.6
0°-60°	1316.6	97.3
0°-90°	1353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1486	1486	1486	1486	1486	
5°	1413	1444	1478	1463	1464	131
15°	1234	1262	1303	1311	1312	344
25°	883	911	899	933	942	400
35°	411	417	336	406	416	263
45°	168	149	84	134	158	136
55°	90	67	17	60	82	81
65°	41	28	8	25	37	42
75°	14	9	3	8	13	15
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°	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3	1486.3
2.5°	1450.7	1466.7	1465.6	1479.4	1482.8	1479.4	1470.2	1479.4	1478.2
5°	1412.8	1431.2	1443.8	1466.7	1478.2	1475.9	1463.3	1465.6	1464.4
7.5°	1357.7	1380.7	1402.5	1436.9	1458.7	1457.6	1439.2	1435.8	1431.2
10°	1302.6	1324.4	1349.7	1385.3	1413.9	1418.5	1400.2	1395.6	1393.3
12.5°	1270.5	1287.7	1304.9	1335.9	1361.2	1370.3	1360.0	1361.2	1360.0
15°	1233.8	1251.0	1262.5	1285.4	1302.6	1315.2	1310.7	1317.5	1311.8
17.5°	1178.7	1199.3	1203.9	1221.1	1233.8	1241.8	1246.4	1253.3	1244.1
20°	1104.1	1120.1	1125.9	1132.8	1138.5	1148.8	1162.6	1169.5	1159.2
22.5°	999.6	1030.6	1029.5	1026.0	1031.8	1035.2	1057.0	1068.5	1060.5
25°	882.6	914.7	911.3	897.5	898.6	905.5	933.1	948.0	942.2
27.5°	759.8	789.6	781.6	755.2	748.3	758.6	794.2	811.4	808.0
30°	641.6	661.1	648.4	601.4	593.4	606.0	651.9	669.1	659.9
32.5°	514.2	529.1	523.3	466.0	452.2	464.8	518.8	534.8	524.5
35°	410.9	424.6	416.6	348.9	336.3	350.0	406.3	424.6	415.5
37.5°	329.4	339.7	329.4	257.1	245.6	259.4	313.3	337.4	325.9
40°	261.7	269.7	255.9	189.4	180.2	187.1	237.6	261.7	253.6
42.5°	206.6	212.3	197.4	138.9	128.5	137.7	179.0	200.8	196.3
45°	167.6	167.6	149.2	96.4	83.8	93.0	134.3	157.2	158.4
47.5°	143.5	140.0	117.1	64.3	48.2	60.8	106.7	130.8	134.3
50°	123.9	119.4	96.4	47.1	31.0	43.6	88.4	112.5	115.9
52.5°	106.7	103.3	80.3	36.7	21.8	33.3	74.6	97.6	101.0
55°	89.5	87.2	66.6	28.7	17.2	25.2	59.7	79.2	81.5
57.5°	73.5	70.0	53.9	24.1	13.8	20.7	49.4	65.4	67.7
60°	62.0	58.5	43.6	19.5	11.5	16.1	40.2	53.9	56.2
62.5°	51.6	48.2	35.6	16.1	9.2	13.8	32.1	43.6	45.9
65°	41.3	39.0	27.5	12.6	8.0	10.3	25.2	34.4	36.7
67.5°	33.3	31.0	21.8	10.3	6.9	8.0	19.5	27.5	29.8
70°	25.2	23.0	16.1	8.0	5.7	6.9	14.9	20.7	23.0
72.5°	18.4	17.2	12.6	6.9	4.6	5.7	10.3	14.9	17.2
75°	13.8	12.6	9.2	4.6	3.4	4.6	8.0	11.5	12.6
77.5°	9.2	9.2	6.9	3.4	3.4	3.4	5.7	8.0	8.0
80°	6.9	5.7	4.6	2.3	2.3	2.3	3.4	5.7	5.7
82.5°	4.6	3.4	3.4	2.3	2.3	2.3	2.3	3.4	3.4
85°	2.3	2.3	2.3	1.1	1.1	1.1	1.1	2.3	2.3
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)