

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: P856973

Luminaire Tested: **LD4C15D010 EU4159040 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856973
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 EU4159040 4LBMDSWWMH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

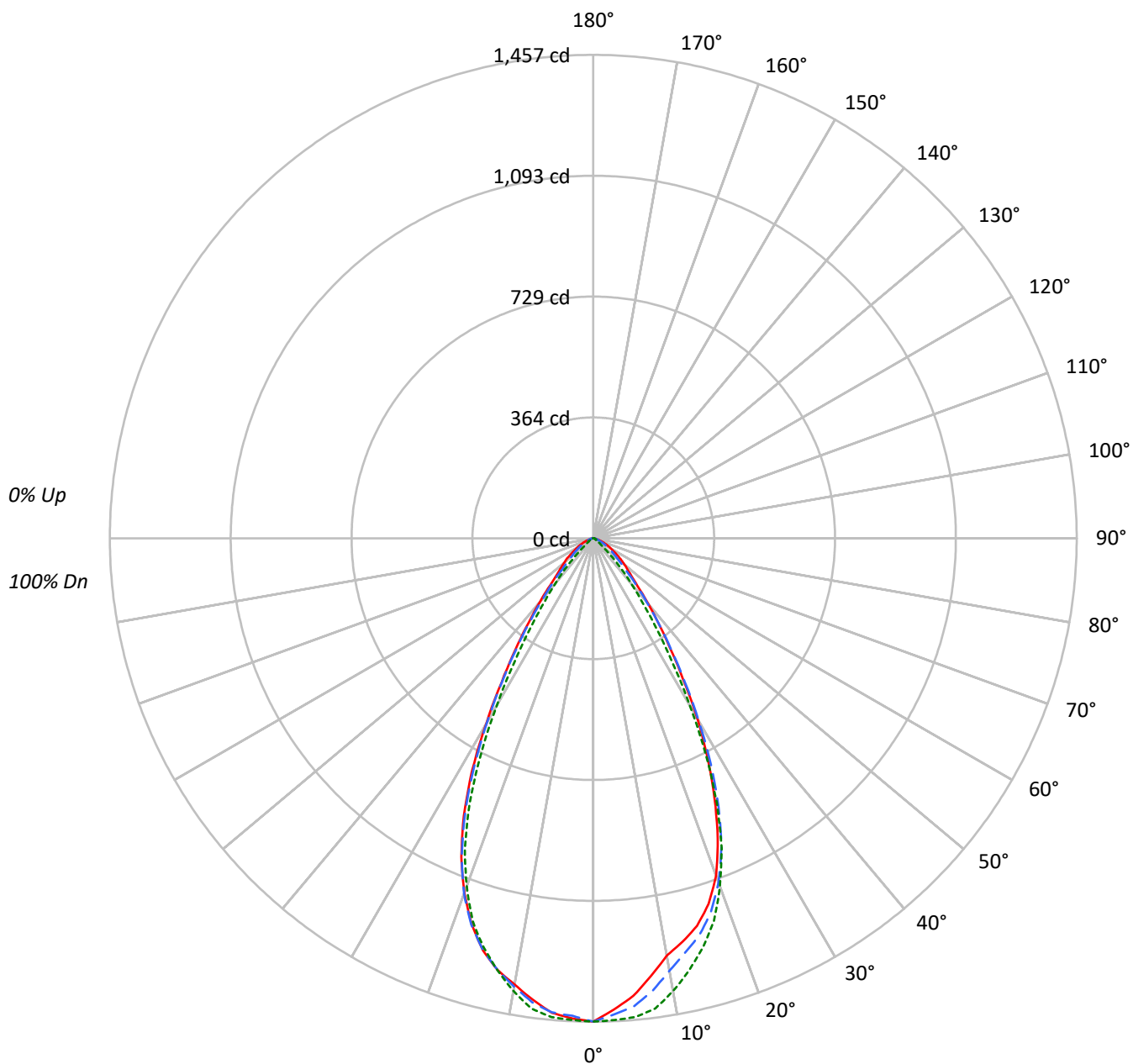
Lumens per Lamp: N/A
Luminaire Lumens: 1326.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	178948	178948	178948
5°	170753	178658	176993
10°	159254	172864	170344
15°	153782	162367	163512
20°	141458	145877	148518
25°	117254	119382	125170
30°	89201	82491	91740
35°	60395	49432	61070
40°	41136	28322	39869
45°	28528	14264	26965
50°	23222	5810	21712
55°	18784	3620	17114
60°	14914	2752	13538
65°	11773	2296	10465
70°	8872	2012	8082
75°	6408	1614	5886
80°	4740	1556	3962
85°	3101	1551	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	10.1
10°-20°	351.9	26.5
20°-30°	403.7	30.4
30°-40°	245.3	18.5
40°-50°	105.1	7.9
50°-60°	50.4	3.8
60°-70°	24.5	1.8
70°-80°	9.1	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°	889.5	67.1
0°-40°	1134.8	85.6
0°-60°	1290.3	97.3
0°-90°	1326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1457	1457	1457	1457	1457	
5°	1385	1415	1449	1434	1435	129
15°	1209	1237	1277	1284	1286	337
25°	865	893	881	914	923	392
35°	403	408	330	398	407	258
45°	164	146	82	132	155	133
55°	88	65	17	58	80	79
65°	40	27	8	25	36	41
75°	14	9	3	8	12	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°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1421.7	1437.5	1436.3	1449.8	1453.2	1449.8	1440.8	1449.8	1448.7
5°	1384.6	1402.6	1415.0	1437.5	1448.7	1446.5	1434.1	1436.3	1435.2
7.5°	1330.6	1353.1	1374.5	1408.2	1429.6	1428.5	1410.5	1407.1	1402.6
10°	1276.6	1298.0	1322.7	1357.6	1385.7	1390.2	1372.2	1367.7	1365.5
12.5°	1245.1	1262.0	1278.9	1309.2	1334.0	1343.0	1332.9	1334.0	1332.9
15°	1209.1	1226.0	1237.3	1259.8	1276.6	1289.0	1284.5	1291.2	1285.6
17.5°	1155.2	1175.4	1179.9	1196.8	1209.1	1217.0	1221.5	1228.3	1219.3
20°	1082.0	1097.8	1103.4	1110.2	1115.8	1125.9	1139.4	1146.2	1136.0
22.5°	979.7	1010.1	1008.9	1005.6	1011.2	1014.6	1035.9	1047.2	1039.3
25°	865.0	896.5	893.1	879.6	880.7	887.5	914.4	929.1	923.4
27.5°	744.6	773.8	766.0	740.1	733.4	743.5	778.3	795.2	791.8
30°	628.8	647.9	635.5	589.4	581.5	593.9	638.9	655.7	646.7
32.5°	503.9	518.5	512.9	456.7	443.2	455.5	508.4	524.1	514.0
35°	402.7	416.2	408.3	341.9	329.6	343.1	398.2	416.2	407.2
37.5°	322.8	332.9	322.8	252.0	240.7	254.2	307.1	330.7	319.4
40°	256.5	264.3	250.8	185.6	176.6	183.3	232.8	256.5	248.6
42.5°	202.5	208.1	193.5	136.1	126.0	135.0	175.5	196.8	192.3
45°	164.2	164.2	146.2	94.5	82.1	91.1	131.6	154.1	155.2
47.5°	140.6	137.2	114.7	63.0	47.2	59.6	104.6	128.2	131.6
50°	121.5	117.0	94.5	46.1	30.4	42.7	86.6	110.2	113.6
52.5°	104.6	101.2	78.7	36.0	21.4	32.6	73.1	95.6	99.0
55°	87.7	85.5	65.2	28.1	16.9	24.7	58.5	77.6	79.9
57.5°	72.0	68.6	52.9	23.6	13.5	20.2	48.4	64.1	66.4
60°	60.7	57.4	42.7	19.1	11.2	15.7	39.4	52.9	55.1
62.5°	50.6	47.2	34.9	15.7	9.0	13.5	31.5	42.7	45.0
65°	40.5	38.2	27.0	12.4	7.9	10.1	24.7	33.7	36.0
67.5°	32.6	30.4	21.4	10.1	6.7	7.9	19.1	27.0	29.2
70°	24.7	22.5	15.7	7.9	5.6	6.7	14.6	20.2	22.5
72.5°	18.0	16.9	12.4	6.7	4.5	5.6	10.1	14.6	16.9
75°	13.5	12.4	9.0	4.5	3.4	4.5	7.9	11.2	12.4
77.5°	9.0	9.0	6.7	3.4	3.4	3.4	5.6	7.9	7.9
80°	6.7	5.6	4.5	2.2	2.2	2.2	3.4	5.6	5.6
82.5°	4.5	3.4	3.4	2.2	2.2	2.2	2.2	3.4	3.4
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)