

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: P856969

Luminaire Tested: **LD4C15D010 EU4159040 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856969
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 4LBMDSWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

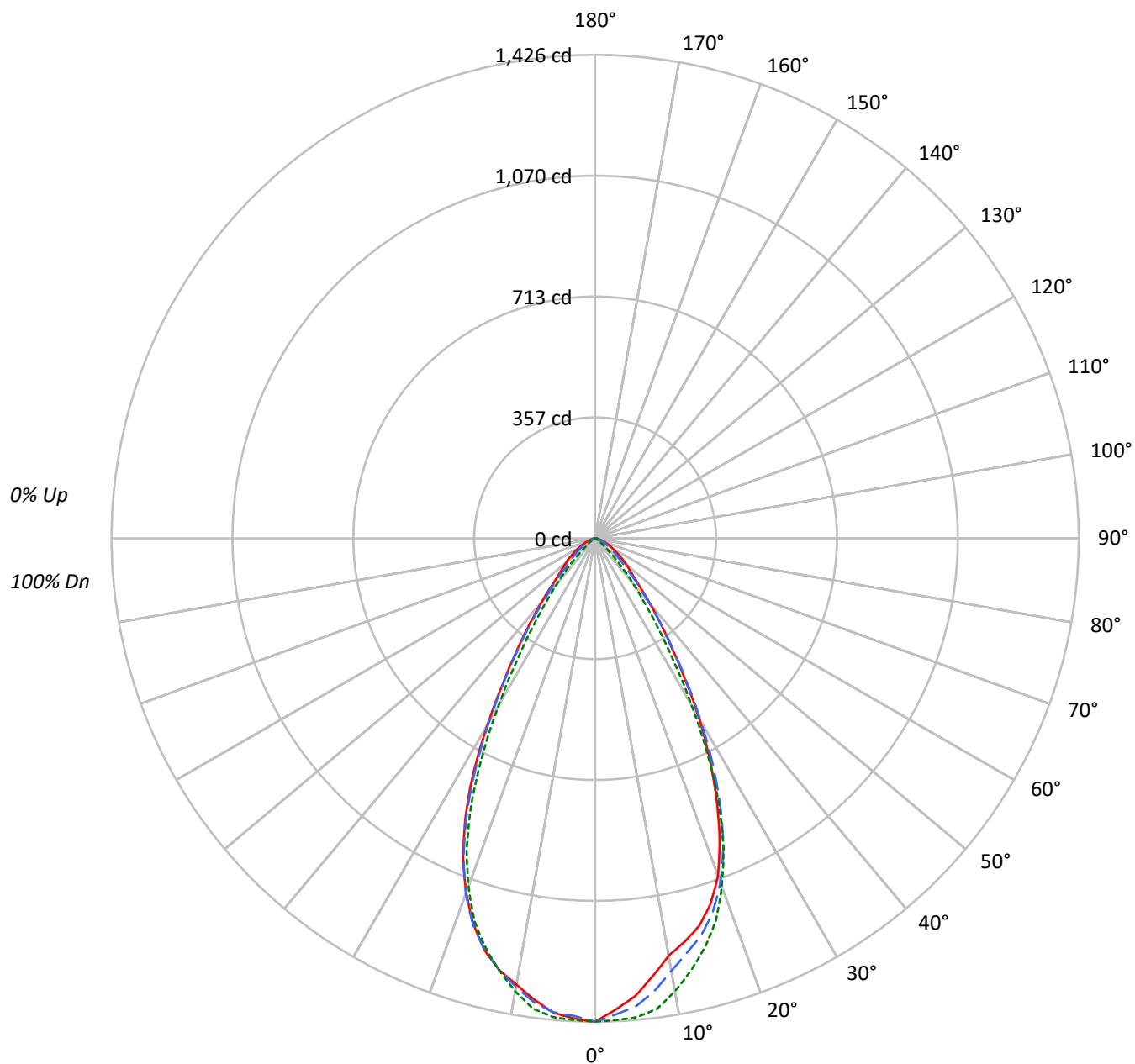
Lumens per Lamp: N/A
Luminaire Lumens: 1298.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	175164	175164	175164
5°	167152	174884	173256
10°	155898	169222	166752
15°	150539	158946	160065
20°	138478	142792	145381
25°	114773	116861	122527
30°	87314	80746	89811
35°	59121	48382	59781
40°	40254	27729	39019
45°	27938	13969	26391
50°	22725	5676	21253
55°	18399	3534	16750
60°	14620	2703	13268
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°	131.1	10.1
10°-20°	344.4	26.5
20°-30°	395.2	30.4
30°-40°	240.1	18.5
40°-50°	102.9	7.9
50°-60°	49.4	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°	870.7	67.1
0°-40°	1110.8	85.6
0°-60°	1263.0	97.3
0°-90°	1298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1298.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1355	1385	1418	1404	1405	126
15°	1184	1211	1250	1257	1258	330
25°	847	874	862	895	904	384
35°	394	400	323	390	399	253
45°	161	143	80	129	152	131
55°	86	64	16	57	78	78
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°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1391.7	1407.1	1406.0	1419.2	1422.5	1419.2	1410.4	1419.2	1418.1
5°	1355.4	1373.0	1385.1	1407.1	1418.1	1415.9	1403.8	1406.0	1404.9
7.5°	1302.5	1324.5	1345.5	1378.5	1399.4	1398.3	1380.7	1377.4	1373.0
10°	1249.7	1270.6	1294.8	1328.9	1356.5	1360.9	1343.3	1338.9	1336.7
12.5°	1218.8	1235.4	1251.9	1281.6	1305.8	1314.6	1304.7	1305.8	1304.7
15°	1183.6	1200.1	1211.1	1233.2	1249.7	1261.8	1257.4	1264.0	1258.5
17.5°	1130.8	1150.6	1155.0	1171.5	1183.6	1191.3	1195.7	1202.3	1193.5
20°	1059.2	1074.6	1080.1	1086.7	1092.2	1102.1	1115.3	1121.9	1112.0
22.5°	959.0	988.7	987.6	984.3	989.8	993.1	1014.0	1025.1	1017.4
25°	846.7	877.5	874.2	861.0	862.1	868.7	895.1	909.5	903.9
27.5°	728.9	757.5	749.8	724.5	717.9	727.8	761.9	778.4	775.1
30°	615.5	634.2	622.1	576.9	569.2	581.3	625.4	641.9	633.1
32.5°	493.3	507.6	502.1	447.0	433.8	445.9	497.7	513.1	503.2
35°	394.2	407.4	399.7	334.7	322.6	335.8	389.8	407.4	398.6
37.5°	316.0	325.9	316.0	246.6	235.6	248.8	300.6	323.7	312.7
40°	251.0	258.7	245.5	181.7	172.9	179.5	227.9	251.0	243.3
42.5°	198.2	203.7	189.4	133.2	123.3	132.1	171.8	192.7	188.3
45°	160.8	160.8	143.1	92.5	80.4	89.2	128.8	150.8	151.9
47.5°	137.6	134.3	112.3	61.7	46.2	58.4	102.4	125.5	128.8
50°	118.9	114.5	92.5	45.1	29.7	41.8	84.8	107.9	111.2
52.5°	102.4	99.1	77.1	35.2	20.9	31.9	71.6	93.6	96.9
55°	85.9	83.7	63.9	27.5	16.5	24.2	57.3	76.0	78.2
57.5°	70.5	67.2	51.7	23.1	13.2	19.8	47.3	62.8	65.0
60°	59.5	56.2	41.8	18.7	11.0	15.4	38.5	51.7	54.0
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)