

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: P859476

Luminaire Tested: **LD4C70D010 EU4709035 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859476
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: LD4C70D010 EU4709035 4LBMDSWWMH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

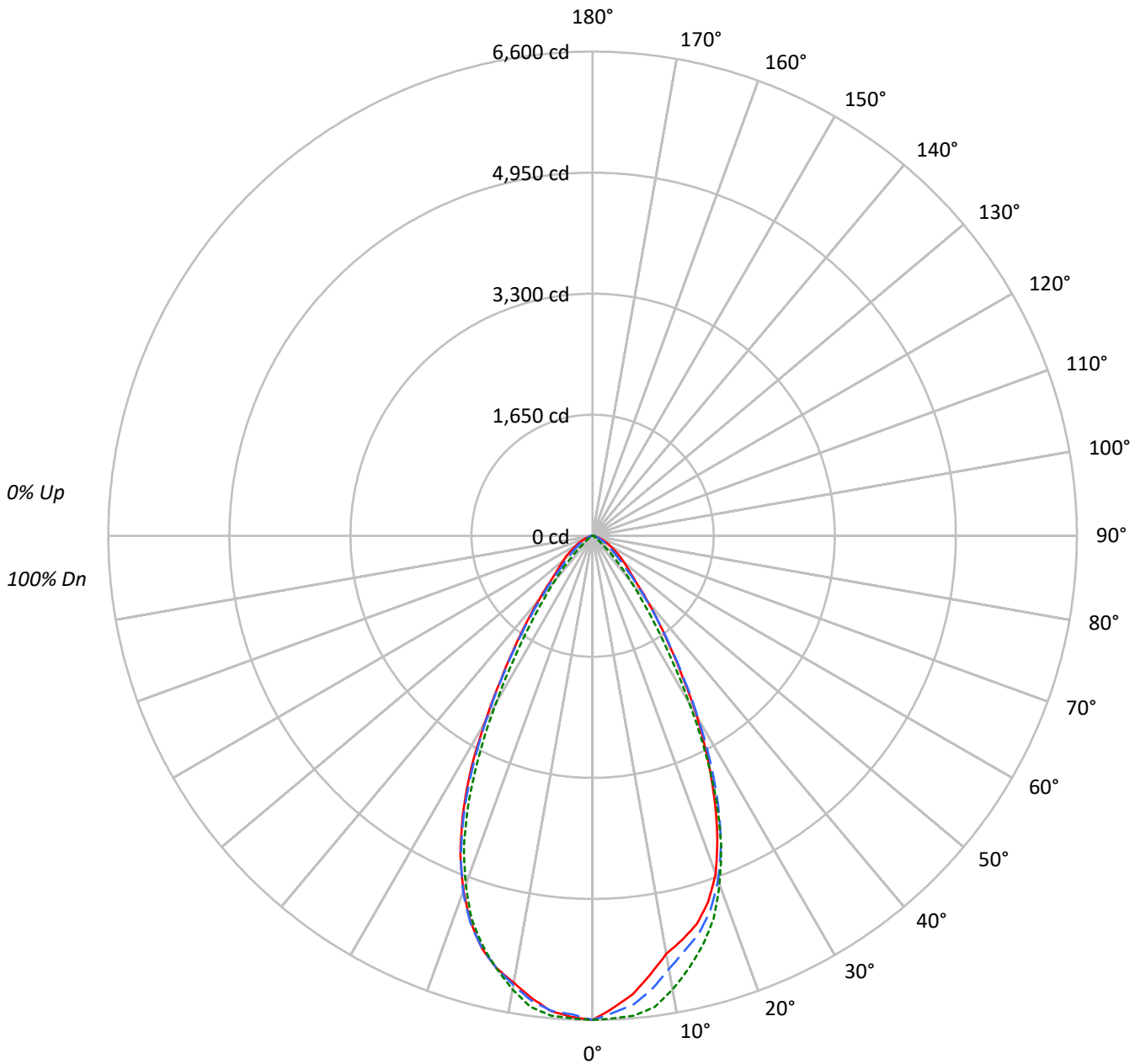
Lumens per Lamp: N/A
Luminaire Lumens: 6008.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	810796	810796	810796
5°	773665	809491	801956
10°	721584	783247	771808
15°	696795	735689	740879
20°	640956	660946	672947
25°	531249	540914	567171
30°	404128	373770	415704
35°	273632	223945	276691
40°	186354	128315	180629
45°	129281	64632	122192
50°	105196	26299	98373
55°	85140	16364	77493
60°	67619	12531	61353
65°	53343	10378	47413
70°	40266	9160	36602
75°	29050	7262	26629
80°	21649	7216	18041
85°	14378	7189	14378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.8	10.1
10°-20°	1594.3	26.5
20°-30°	1829.2	30.4
30°-40°	1111.2	18.5
40°-50°	476.2	7.9
50°-60°	228.5	3.8
60°-70°	111.1	1.8
70°-80°	41.2	0.7
80°-90°	9.5	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°	4030.3	67.1
0°-40°	5141.5	85.6
0°-60°	5846.2	97.3
0°-90°	6008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6008.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6600	6600	6600	6600	6600	
5°	6274	6411	6564	6498	6503	583
15°	5478	5606	5784	5820	5825	1525
25°	3919	4046	3990	4143	4184	1778
35°	1824	1850	1493	1804	1845	1169
45°	744	662	372	596	703	604
55°	398	296	76	265	362	359
65°	184	122	36	112	163	186
75°	61	41	15	36	56	67
85°	10	10	5	5	10	14
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°	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7	6599.7
2.5°	6441.7	6513.1	6508.0	6569.1	6584.4	6569.1	6528.4	6569.1	6564.0
5°	6273.5	6355.1	6411.1	6513.1	6564.0	6553.8	6497.8	6508.0	6502.9
7.5°	6028.9	6130.8	6227.7	6380.6	6477.4	6472.3	6390.8	6375.5	6355.1
10°	5784.3	5881.1	5993.2	6151.2	6278.6	6299.0	6217.5	6197.1	6186.9
12.5°	5641.6	5718.0	5794.5	5932.1	6044.2	6085.0	6039.1	6044.2	6039.1
15°	5478.5	5555.0	5605.9	5707.8	5784.3	5840.4	5820.0	5850.5	5825.1
17.5°	5233.9	5325.6	5346.0	5422.5	5478.5	5514.2	5534.6	5565.2	5524.4
20°	4902.6	4974.0	4999.5	5030.0	5055.5	5101.4	5162.5	5193.1	5147.3
22.5°	4438.9	4576.5	4571.4	4556.1	4581.6	4596.9	4693.7	4744.6	4709.0
25°	3919.1	4061.7	4046.5	3985.3	3990.4	4021.0	4143.3	4209.5	4184.1
27.5°	3373.7	3506.3	3470.6	3353.4	3322.8	3368.7	3526.6	3603.1	3587.8
30°	2848.8	2935.5	2879.4	2670.5	2634.8	2690.8	2894.7	2971.1	2930.4
32.5°	2283.1	2349.4	2323.9	2069.1	2007.9	2064.0	2303.5	2374.9	2329.0
35°	1824.5	1885.6	1850.0	1549.3	1493.2	1554.4	1804.1	1885.6	1844.9
37.5°	1462.6	1508.5	1462.6	1141.6	1090.6	1151.8	1391.3	1498.3	1447.3
40°	1162.0	1197.6	1136.5	840.9	800.1	830.7	1054.9	1162.0	1126.3
42.5°	917.3	942.8	876.6	616.7	570.8	611.6	795.0	891.9	871.5
45°	744.1	744.1	662.5	428.1	372.0	412.8	596.3	698.2	703.3
47.5°	637.0	621.7	519.8	285.4	214.0	270.1	474.0	581.0	596.3
50°	550.4	530.0	428.1	208.9	137.6	193.7	392.4	499.4	514.7
52.5°	474.0	458.7	356.7	163.1	96.8	147.8	331.3	433.2	448.5
55°	397.5	387.3	295.6	127.4	76.4	112.1	265.0	351.6	361.8
57.5°	326.2	310.9	239.5	107.0	61.2	91.7	219.1	290.5	300.7
60°	275.2	259.9	193.7	86.6	51.0	71.3	178.4	239.5	249.7
62.5°	229.3	214.0	158.0	71.3	40.8	61.2	142.7	193.7	203.9
65°	183.5	173.3	122.3	56.1	35.7	45.9	112.1	152.9	163.1
67.5°	147.8	137.6	96.8	45.9	30.6	35.7	86.6	122.3	132.5
70°	112.1	101.9	71.3	35.7	25.5	30.6	66.3	91.7	101.9
72.5°	81.5	76.4	56.1	30.6	20.4	25.5	45.9	66.3	76.4
75°	61.2	56.1	40.8	20.4	15.3	20.4	35.7	51.0	56.1
77.5°	40.8	40.8	30.6	15.3	15.3	15.3	25.5	35.7	35.7
80°	30.6	25.5	20.4	10.2	10.2	10.2	15.3	25.5	25.5
82.5°	20.4	15.3	15.3	10.2	10.2	10.2	10.2	15.3	15.3
85°	10.2	10.2	10.2	5.1	5.1	5.1	5.1	10.2	10.2
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)