

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: P859514

Luminaire Tested: **LD4C70D010 EU4709050 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859514
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 EU4709050 4LBMDSWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

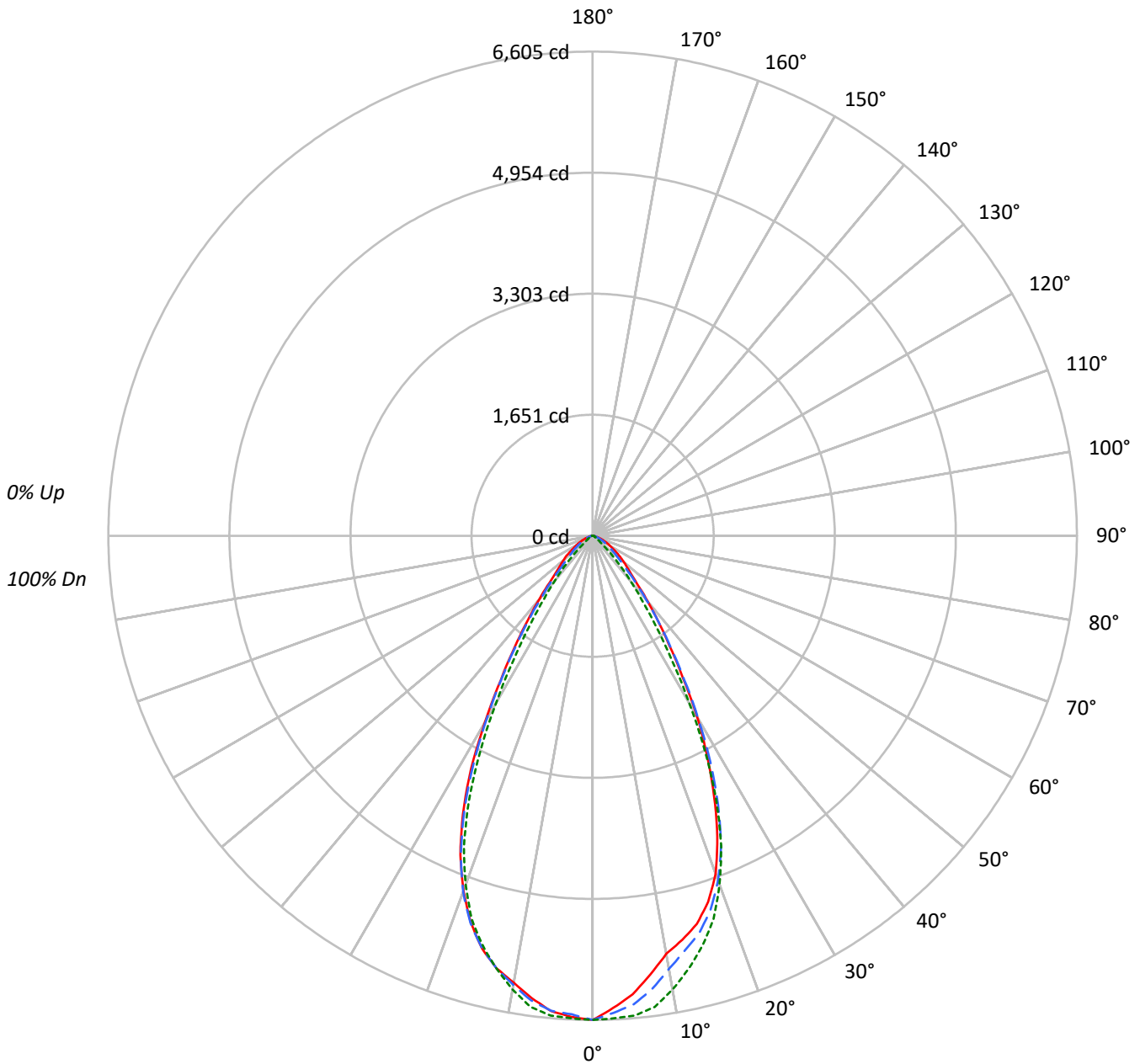
Lumens per Lamp: N/A
Luminaire Lumens: 6013.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	811472	811472	811472
5°	774319	810169	802621
10°	722183	783908	772444
15°	697381	736300	741489
20°	641492	661495	673496
25°	531683	541361	567632
30°	404468	374082	416044
35°	273857	224140	276916
40°	186499	128427	180773
45°	129385	64684	122296
50°	105291	26318	98468
55°	85204	16385	77558
60°	67668	12531	61402
65°	53372	10378	47442
70°	40302	9160	36638
75°	29050	7262	26629
80°	21649	7216	18041
85°	14378	7189	14378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	10.1
10°-20°	1595.6	26.5
20°-30°	1830.7	30.4
30°-40°	1112.1	18.5
40°-50°	476.6	7.9
50°-60°	228.6	3.8
60°-70°	111.2	1.8
70°-80°	41.3	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°	4033.6	67.1
0°-40°	5145.8	85.6
0°-60°	5851.1	97.3
0°-90°	6013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6013.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6605	6605	6605	6605	6605	
5°	6279	6416	6570	6503	6508	583
15°	5483	5611	5789	5825	5830	1527
25°	3922	4050	3994	4147	4188	1779
35°	1826	1852	1494	1806	1846	1170
45°	745	663	372	597	704	605
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°	6605.2	6605.2	6605.2	6605.2	6605.2	6605.2	6605.2	6605.2	6605.2
2.5°	6447.1	6518.5	6513.4	6574.6	6589.9	6574.6	6533.8	6574.6	6569.5
5°	6278.8	6360.4	6416.5	6518.5	6569.5	6559.3	6503.2	6513.4	6508.3
7.5°	6033.9	6135.9	6232.9	6385.9	6482.8	6477.7	6396.1	6380.8	6360.4
10°	5789.1	5886.0	5998.2	6156.3	6283.9	6304.3	6222.7	6202.3	6192.0
12.5°	5646.3	5722.8	5799.3	5937.0	6049.2	6090.0	6044.1	6049.2	6044.1
15°	5483.1	5559.6	5610.6	5712.6	5789.1	5845.2	5824.8	5855.4	5829.9
17.5°	5238.2	5330.1	5350.5	5427.0	5483.1	5518.8	5539.2	5569.8	5529.0
20°	4906.7	4978.1	5003.6	5034.2	5059.7	5105.6	5166.8	5197.4	5151.5
22.5°	4442.6	4580.3	4575.2	4559.9	4585.4	4600.7	4697.6	4748.6	4712.9
25°	3922.3	4065.1	4049.8	3988.6	3993.7	4024.3	4146.7	4213.0	4187.5
27.5°	3376.6	3509.2	3473.5	3356.2	3325.5	3371.5	3529.6	3606.1	3590.8
30°	2851.2	2937.9	2881.8	2672.7	2637.0	2693.1	2897.1	2973.6	2932.8
32.5°	2285.0	2351.3	2325.8	2070.8	2009.6	2065.7	2305.4	2376.8	2330.9
35°	1826.0	1887.2	1851.5	1550.6	1494.5	1555.7	1805.6	1887.2	1846.4
37.5°	1463.9	1509.8	1463.9	1142.5	1091.5	1152.7	1392.4	1499.6	1448.6
40°	1162.9	1198.6	1137.4	841.6	800.8	831.4	1055.8	1162.9	1127.2
42.5°	918.1	943.6	877.3	617.2	571.3	612.1	795.7	892.6	872.2
45°	744.7	744.7	663.1	428.4	372.3	413.1	596.8	698.8	703.9
47.5°	637.6	622.3	520.3	285.6	214.2	270.3	474.3	581.5	596.8
50°	550.9	530.5	428.4	209.1	137.7	193.8	392.7	499.9	515.2
52.5°	474.3	459.0	357.0	163.2	96.9	147.9	331.5	433.5	448.8
55°	397.8	387.6	295.8	127.5	76.5	112.2	265.2	351.9	362.1
57.5°	326.4	311.1	239.7	107.1	61.2	91.8	219.3	290.7	300.9
60°	275.4	260.1	193.8	86.7	51.0	71.4	178.5	239.7	249.9
62.5°	229.5	214.2	158.1	71.4	40.8	61.2	142.8	193.8	204.0
65°	183.6	173.4	122.4	56.1	35.7	45.9	112.2	153.0	163.2
67.5°	147.9	137.7	96.9	45.9	30.6	35.7	86.7	122.4	132.6
70°	112.2	102.0	71.4	35.7	25.5	30.6	66.3	91.8	102.0
72.5°	81.6	76.5	56.1	30.6	20.4	25.5	45.9	66.3	76.5
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)