

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: P857373

Luminaire Tested: **LD4C25D010 EU4259035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857373
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: LD4C25D010 EU4259035 4LBMDSWMW
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

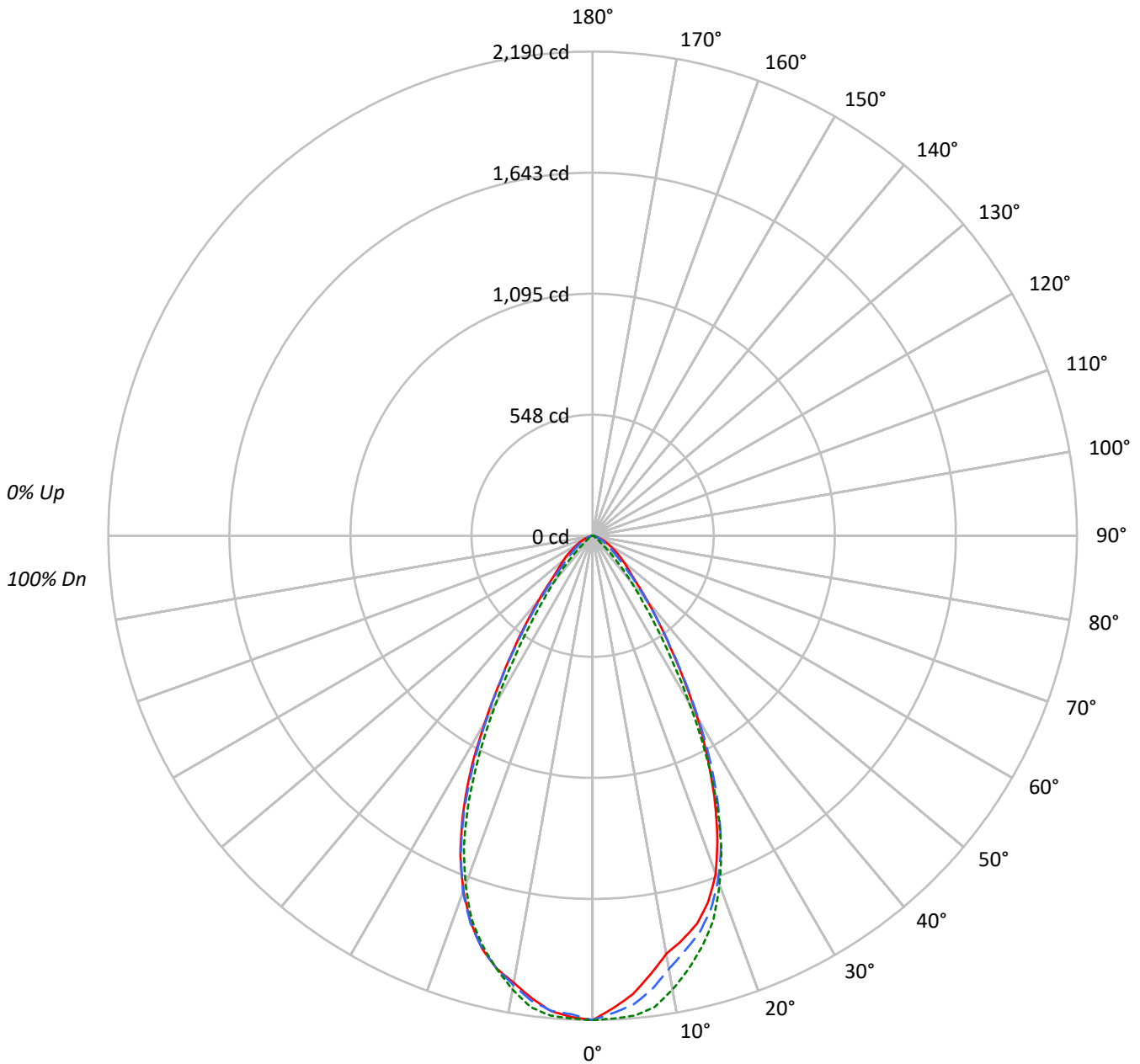
Lumens per Lamp: N/A
Luminaire Lumens: 1994.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	269098	269098	269098
5°	256770	268659	266155
10°	239493	259951	256159
15°	231265	244174	245891
20°	212724	219365	223340
25°	176315	179527	188244
30°	134128	124056	137972
35°	90811	74328	91831
40°	61840	42595	59948
45°	42897	21457	40551
50°	34919	8734	32644
55°	28251	5440	25724
60°	22433	4152	20369
65°	17703	3430	15727
70°	13362	3053	12141
75°	9636	2421	8829
80°	7146	2405	6014
85°	4793	2396	4793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	10.1
10°-20°	529.1	26.5
20°-30°	607.1	30.4
30°-40°	368.8	18.5
40°-50°	158.1	7.9
50°-60°	75.8	3.8
60°-70°	36.9	1.8
70°-80°	13.7	0.7
80°-90°	3.2	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°	1337.6	67.1
0°-40°	1706.4	85.6
0°-60°	1940.3	97.3
0°-90°	1994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2190	2190	2190	2190	2190	
5°	2082	2128	2178	2157	2158	193
15°	1818	1861	1920	1932	1933	506
25°	1301	1343	1324	1375	1389	590
35°	606	614	496	599	612	388
45°	247	220	124	198	233	201
55°	132	98	25	88	120	119
65°	61	41	12	37	54	62
75°	20	14	5	12	19	22
85°	3	3	2	2	3	5
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°	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4
2.5°	2137.9	2161.6	2159.9	2180.2	2185.3	2180.2	2166.7	2180.2	2178.5
5°	2082.1	2109.2	2127.8	2161.6	2178.5	2175.2	2156.6	2159.9	2158.2
7.5°	2000.9	2034.8	2066.9	2117.6	2149.8	2148.1	2121.0	2116.0	2109.2
10°	1919.8	1951.9	1989.1	2041.5	2083.8	2090.6	2063.5	2056.8	2053.4
12.5°	1872.4	1897.8	1923.1	1968.8	2006.0	2019.5	2004.3	2006.0	2004.3
15°	1818.3	1843.6	1860.6	1894.4	1919.8	1938.4	1931.6	1941.7	1933.3
17.5°	1737.1	1767.5	1774.3	1799.7	1818.3	1830.1	1836.9	1847.0	1833.5
20°	1627.1	1650.8	1659.3	1669.4	1677.9	1693.1	1713.4	1723.5	1708.3
22.5°	1473.2	1518.9	1517.2	1512.1	1520.6	1525.7	1557.8	1574.7	1562.9
25°	1300.7	1348.1	1343.0	1322.7	1324.4	1334.5	1375.1	1397.1	1388.7
27.5°	1119.7	1163.7	1151.9	1112.9	1102.8	1118.0	1170.5	1195.8	1190.8
30°	945.5	974.3	955.6	886.3	874.5	893.1	960.7	986.1	972.6
32.5°	757.8	779.7	771.3	686.7	666.4	685.0	764.5	788.2	773.0
35°	605.5	625.8	614.0	514.2	495.6	515.9	598.8	625.8	612.3
37.5°	485.4	500.7	485.4	378.9	362.0	382.3	461.8	497.3	480.4
40°	385.6	397.5	377.2	279.1	265.6	275.7	350.1	385.6	373.8
42.5°	304.5	312.9	290.9	204.7	189.4	203.0	263.9	296.0	289.2
45°	246.9	246.9	219.9	142.1	123.5	137.0	197.9	231.7	233.4
47.5°	211.4	206.4	172.5	94.7	71.0	89.6	157.3	192.8	197.9
50°	182.7	175.9	142.1	69.3	45.7	64.3	130.2	165.8	170.8
52.5°	157.3	152.2	118.4	54.1	32.1	49.1	109.9	143.8	148.8
55°	131.9	128.5	98.1	42.3	25.4	37.2	88.0	116.7	120.1
57.5°	108.3	103.2	79.5	35.5	20.3	30.4	72.7	96.4	99.8
60°	91.3	86.3	64.3	28.8	16.9	23.7	59.2	79.5	82.9
62.5°	76.1	71.0	52.4	23.7	13.5	20.3	47.4	64.3	67.7
65°	60.9	57.5	40.6	18.6	11.8	15.2	37.2	50.7	54.1
67.5°	49.1	45.7	32.1	15.2	10.1	11.8	28.8	40.6	44.0
70°	37.2	33.8	23.7	11.8	8.5	10.1	22.0	30.4	33.8
72.5°	27.1	25.4	18.6	10.1	6.8	8.5	15.2	22.0	25.4
75°	20.3	18.6	13.5	6.8	5.1	6.8	11.8	16.9	18.6
77.5°	13.5	13.5	10.1	5.1	5.1	5.1	8.5	11.8	11.8
80°	10.1	8.5	6.8	3.4	3.4	3.4	5.1	8.5	8.5
82.5°	6.8	5.1	5.1	3.4	3.4	3.4	3.4	5.1	5.1
85°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	3.4	3.4
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)