

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: P857394

Luminaire Tested: **LD4C25D010 EU4259040 4LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857394
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 EU4259040 4LBMDSWMW
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

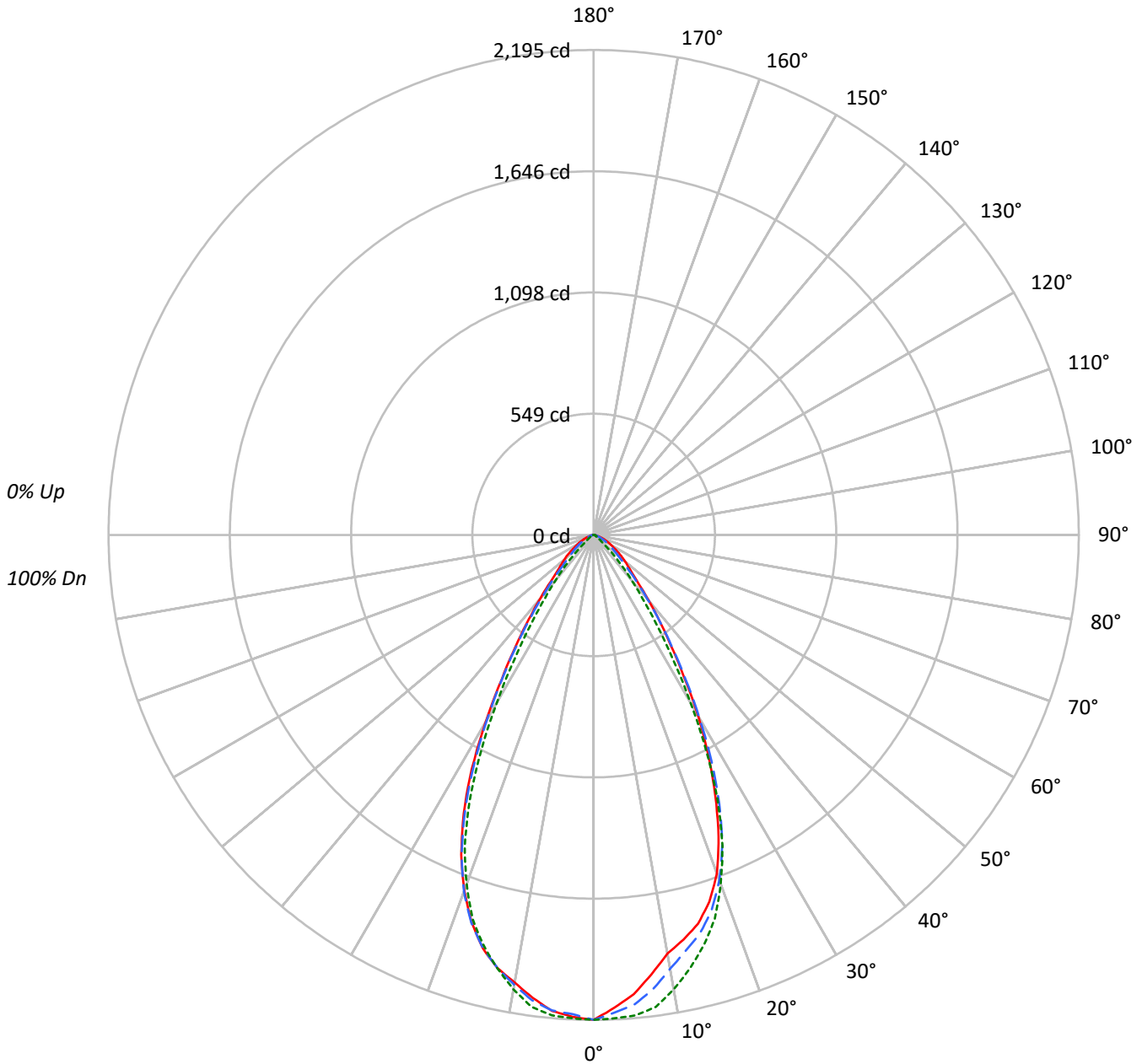
Lumens per Lamp: N/A
Luminaire Lumens: 1998.0 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	269639	269639	269639
5°	257288	269201	266698
10°	239967	260475	256670
15°	231722	244657	246387
20°	213155	219797	223797
25°	176667	179880	188610
30°	134397	124297	138242
35°	90991	74478	92011
40°	61968	42675	60076
45°	42984	21492	40638
50°	34976	8754	32721
55°	28316	5440	25767
60°	22482	4152	20394
65°	17732	3459	15756
70°	13398	3053	12177
75°	9636	2421	8829
80°	7216	2405	6014
85°	4793	2396	4793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	10.1
10°-20°	530.2	26.5
20°-30°	608.3	30.4
30°-40°	369.5	18.5
40°-50°	158.4	7.9
50°-60°	76.0	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°	1340.3	67.1
0°-40°	1709.8	85.6
0°-60°	1944.2	97.3
0°-90°	1998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1998.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2195	2195	2195	2195	2195	
5°	2086	2132	2183	2161	2163	194
15°	1822	1864	1924	1936	1937	507
25°	1303	1346	1327	1378	1391	591
35°	607	615	497	600	614	389
45°	247	220	124	198	234	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°	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8	2194.8
2.5°	2142.2	2166.0	2164.3	2184.6	2189.7	2184.6	2171.0	2184.6	2182.9
5°	2086.3	2113.4	2132.1	2166.0	2182.9	2179.5	2160.9	2164.3	2162.6
7.5°	2005.0	2038.9	2071.1	2121.9	2154.1	2152.4	2125.3	2120.2	2113.4
10°	1923.6	1955.8	1993.1	2045.6	2088.0	2094.8	2067.7	2060.9	2057.5
12.5°	1876.2	1901.6	1927.0	1972.8	2010.0	2023.6	2008.3	2010.0	2008.3
15°	1821.9	1847.3	1864.3	1898.2	1923.6	1942.2	1935.5	1945.6	1937.2
17.5°	1740.6	1771.1	1777.9	1803.3	1821.9	1833.8	1840.6	1850.7	1837.2
20°	1630.4	1654.1	1662.6	1672.8	1681.2	1696.5	1716.8	1727.0	1711.8
22.5°	1476.2	1521.9	1520.2	1515.2	1523.6	1528.7	1560.9	1577.9	1566.0
25°	1303.3	1350.8	1345.7	1325.3	1327.0	1337.2	1377.9	1399.9	1391.4
27.5°	1122.0	1166.0	1154.2	1115.2	1105.0	1120.3	1172.8	1198.2	1193.1
30°	947.4	976.2	957.6	888.1	876.2	894.9	962.6	988.1	974.5
32.5°	759.3	781.3	772.8	688.1	667.8	686.4	766.1	789.8	774.5
35°	606.7	627.1	615.2	515.2	496.6	516.9	600.0	627.1	613.5
37.5°	486.4	501.7	486.4	379.6	362.7	383.0	462.7	498.3	481.3
40°	386.4	398.3	377.9	279.6	266.1	276.3	350.8	386.4	374.6
42.5°	305.1	313.5	291.5	205.1	189.8	203.4	264.4	296.6	289.8
45°	247.4	247.4	220.3	142.4	123.7	137.3	198.3	232.2	233.9
47.5°	211.9	206.8	172.9	94.9	71.2	89.8	157.6	193.2	198.3
50°	183.0	176.3	142.4	69.5	45.8	64.4	130.5	166.1	171.2
52.5°	157.6	152.5	118.6	54.2	32.2	49.1	110.2	144.1	149.1
55°	132.2	128.8	98.3	42.4	25.4	37.3	88.1	116.9	120.3
57.5°	108.5	103.4	79.7	35.6	20.3	30.5	72.9	96.6	100.0
60°	91.5	86.4	64.4	28.8	16.9	23.7	59.3	79.7	83.0
62.5°	76.3	71.2	52.5	23.7	13.6	20.3	47.5	64.4	67.8
65°	61.0	57.6	40.7	18.6	11.9	15.3	37.3	50.8	54.2
67.5°	49.1	45.8	32.2	15.3	10.2	11.9	28.8	40.7	44.1
70°	37.3	33.9	23.7	11.9	8.5	10.2	22.0	30.5	33.9
72.5°	27.1	25.4	18.6	10.2	6.8	8.5	15.3	22.0	25.4
75°	20.3	18.6	13.6	6.8	5.1	6.8	11.9	16.9	18.6
77.5°	13.6	13.6	10.2	5.1	5.1	5.1	8.5	11.9	11.9
80°	10.2	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)