

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: P857329

Luminaire Tested: **LD4C25D010 EU4259027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857329
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 EU4259027 4LBMDSWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

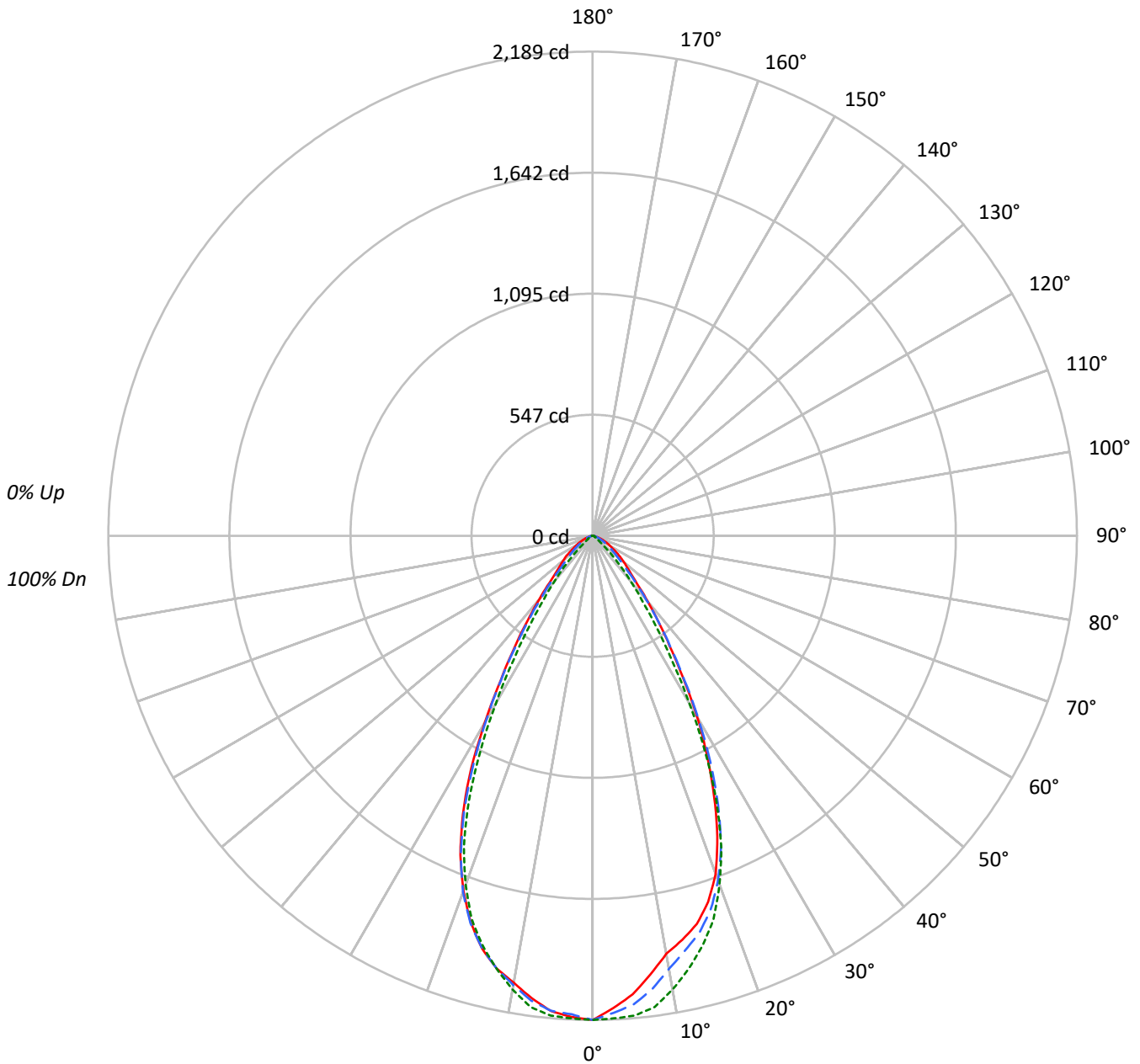
Lumens per Lamp: N/A
Luminaire Lumens: 1993.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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					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								
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°	268963	268963	268963
5°	256647	268523	266032
10°	239368	259827	256022
15°	231150	244047	245764
20°	212619	219248	223235
25°	176220	179433	188149
30°	134057	123985	137901
35°	90766	74283	91786
40°	61808	42563	59916
45°	42879	21440	40534
50°	34900	8715	32625
55°	28251	5440	25703
60°	22433	4152	20345
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°	201.3	10.1
10°-20°	528.9	26.5
20°-30°	606.8	30.4
30°-40°	368.6	18.5
40°-50°	158.0	7.9
50°-60°	75.8	3.8
60°-70°	36.8	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°	1336.9	67.1
0°-40°	1705.6	85.6
0°-60°	1939.3	97.3
0°-90°	1993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2189	2189	2189	2189	2189	
5°	2081	2127	2177	2156	2157	193
15°	1817	1860	1919	1931	1932	506
25°	1300	1342	1324	1374	1388	590
35°	605	614	495	598	612	388
45°	247	220	123	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°	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3
2.5°	2136.9	2160.5	2158.9	2179.1	2184.2	2179.1	2165.6	2179.1	2177.4
5°	2081.1	2108.1	2126.7	2160.5	2177.4	2174.1	2155.5	2158.9	2157.2
7.5°	1999.9	2033.7	2065.9	2116.6	2148.7	2147.0	2120.0	2114.9	2108.1
10°	1918.8	1950.9	1988.1	2040.5	2082.8	2089.5	2062.5	2055.7	2052.3
12.5°	1871.5	1896.8	1922.2	1967.8	2005.0	2018.5	2003.3	2005.0	2003.3
15°	1817.4	1842.7	1859.6	1893.4	1918.8	1937.4	1930.6	1940.8	1932.3
17.5°	1736.2	1766.6	1773.4	1798.8	1817.4	1829.2	1836.0	1846.1	1832.6
20°	1626.3	1650.0	1658.4	1668.6	1677.0	1692.3	1712.5	1722.7	1707.5
22.5°	1472.5	1518.1	1516.4	1511.4	1519.8	1524.9	1557.0	1573.9	1562.1
25°	1300.0	1347.4	1342.3	1322.0	1323.7	1333.9	1374.4	1396.4	1388.0
27.5°	1119.2	1163.1	1151.3	1112.4	1102.2	1117.5	1169.9	1195.2	1190.2
30°	945.0	973.8	955.2	885.9	874.0	892.6	960.2	985.6	972.1
32.5°	757.4	779.4	770.9	686.4	666.1	684.7	764.1	787.8	772.6
35°	605.2	625.5	613.7	513.9	495.3	515.6	598.5	625.5	612.0
37.5°	485.2	500.4	485.2	378.7	361.8	382.1	461.5	497.0	480.1
40°	385.4	397.3	377.0	278.9	265.4	275.6	349.9	385.4	373.6
42.5°	304.3	312.8	290.8	204.6	189.3	202.9	263.7	295.8	289.1
45°	246.8	246.8	219.8	142.0	123.4	136.9	197.8	231.6	233.3
47.5°	211.3	206.2	172.4	94.7	71.0	89.6	157.2	192.7	197.8
50°	182.6	175.8	142.0	69.3	45.6	64.2	130.2	165.7	170.7
52.5°	157.2	152.2	118.3	54.1	32.1	49.0	109.9	143.7	148.8
55°	131.9	128.5	98.1	42.3	25.4	37.2	87.9	116.6	120.0
57.5°	108.2	103.1	79.5	35.5	20.3	30.4	72.7	96.4	99.7
60°	91.3	86.2	64.2	28.7	16.9	23.7	59.2	79.5	82.8
62.5°	76.1	71.0	52.4	23.7	13.5	20.3	47.3	64.2	67.6
65°	60.9	57.5	40.6	18.6	11.8	15.2	37.2	50.7	54.1
67.5°	49.0	45.6	32.1	15.2	10.1	11.8	28.7	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°	27.0	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)