

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: P857350

Luminaire Tested: **LD4C25D010 EU4259030 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857350
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 EU4259030 4LBMDSWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

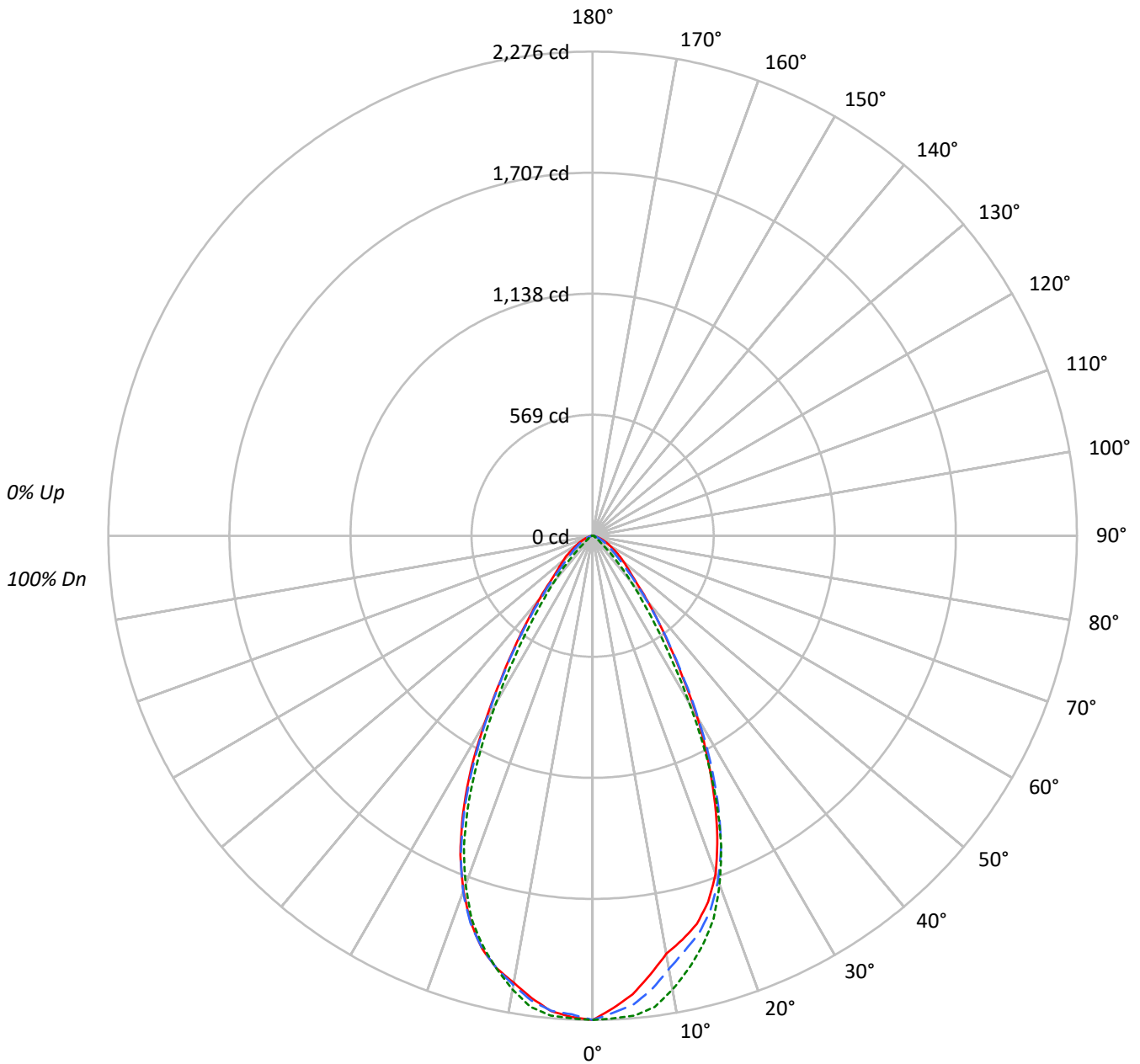
Lumens per Lamp: N/A
Luminaire Lumens: 2072.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	279627	279627	279627
5°	266821	279178	276576
10°	248849	270118	266176
15°	240308	253713	255507
20°	221052	227942	232086
25°	183215	186549	195604
30°	139376	128907	143363
35°	94365	77238	95415
40°	64262	44247	62289
45°	44582	22291	42132
50°	36276	9078	33925
55°	29365	5655	26731
60°	23318	4324	21155
65°	18401	3576	16337
70°	13901	3161	12644
75°	10016	2516	9161
80°	7429	2476	6226
85°	4934	2537	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	10.1
10°-20°	549.8	26.5
20°-30°	630.8	30.4
30°-40°	383.2	18.5
40°-50°	164.2	7.9
50°-60°	78.8	3.8
60°-70°	38.3	1.8
70°-80°	14.2	0.7
80°-90°	3.3	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°	1389.9	67.1
0°-40°	1773.2	85.6
0°-60°	2016.2	97.3
0°-90°	2072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2276	2276	2276	2276	2276	
5°	2164	2211	2264	2241	2243	201
15°	1889	1933	1995	2007	2009	526
25°	1352	1396	1376	1429	1443	613
35°	629	638	515	622	636	403
45°	257	228	128	206	242	208
55°	137	102	26	91	125	124
65°	63	42	12	39	56	64
75°	21	14	5	12	19	23
85°	4	4	2	2	4	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°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2221.6	2246.2	2244.4	2265.5	2270.8	2265.5	2251.5	2265.5	2263.8
5°	2163.6	2191.7	2211.0	2246.2	2263.8	2260.2	2240.9	2244.4	2242.7
7.5°	2079.2	2114.4	2147.8	2200.5	2233.9	2232.1	2204.0	2198.7	2191.7
10°	1994.8	2028.2	2066.9	2121.4	2165.3	2172.4	2144.2	2137.2	2133.7
12.5°	1945.6	1972.0	1998.4	2045.8	2084.5	2098.5	2082.7	2084.5	2082.7
15°	1889.4	1915.8	1933.3	1968.5	1994.8	2014.2	2007.2	2017.7	2008.9
17.5°	1805.0	1836.7	1843.7	1870.1	1889.4	1901.7	1908.7	1919.3	1905.2
20°	1690.8	1715.4	1724.2	1734.7	1743.5	1759.3	1780.4	1791.0	1775.2
22.5°	1530.8	1578.3	1576.5	1571.3	1580.1	1585.3	1618.7	1636.3	1624.0
25°	1351.6	1400.8	1395.5	1374.4	1376.2	1386.7	1428.9	1451.8	1443.0
27.5°	1163.5	1209.2	1196.9	1156.5	1145.9	1161.8	1216.2	1242.6	1237.3
30°	982.5	1012.4	993.0	921.0	908.7	928.0	998.3	1024.7	1010.6
32.5°	787.4	810.2	801.5	713.6	692.5	711.8	794.4	819.0	803.2
35°	629.2	650.3	638.0	534.3	515.0	536.1	622.2	650.3	636.2
37.5°	504.4	520.2	504.4	393.7	376.1	397.2	479.8	516.7	499.2
40°	400.7	413.0	391.9	290.0	275.9	286.5	363.8	400.7	388.4
42.5°	316.4	325.2	302.3	212.7	196.8	210.9	274.2	307.6	300.5
45°	256.6	256.6	228.5	147.6	128.3	142.4	205.6	240.8	242.5
47.5°	219.7	214.4	179.3	98.4	73.8	93.2	163.5	200.4	205.6
50°	189.8	182.8	147.6	72.1	47.5	66.8	135.3	172.2	177.5
52.5°	163.5	158.2	123.0	56.2	33.4	51.0	114.2	149.4	154.7
55°	137.1	133.6	101.9	43.9	26.4	38.7	91.4	121.3	124.8
57.5°	112.5	107.2	82.6	36.9	21.1	31.6	75.6	100.2	103.7
60°	94.9	89.6	66.8	29.9	17.6	24.6	61.5	82.6	86.1
62.5°	79.1	73.8	54.5	24.6	14.1	21.1	49.2	66.8	70.3
65°	63.3	59.8	42.2	19.3	12.3	15.8	38.7	52.7	56.2
67.5°	51.0	47.5	33.4	15.8	10.5	12.3	29.9	42.2	45.7
70°	38.7	35.2	24.6	12.3	8.8	10.5	22.8	31.6	35.2
72.5°	28.1	26.4	19.3	10.5	7.0	8.8	15.8	22.8	26.4
75°	21.1	19.3	14.1	7.0	5.3	7.0	12.3	17.6	19.3
77.5°	14.1	14.1	10.5	5.3	5.3	5.3	8.8	12.3	12.3
80°	10.5	8.8	7.0	3.5	3.5	3.5	5.3	8.8	8.8
82.5°	7.0	5.3	5.3	3.5	3.5	3.5	3.5	5.3	5.3
85°	3.5	3.5	3.5	1.8	1.8	1.8	1.8	3.5	3.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)