

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: P857371

Luminaire Tested: **LD4C25D010 EU4259035 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857371
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 4LBMDSWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

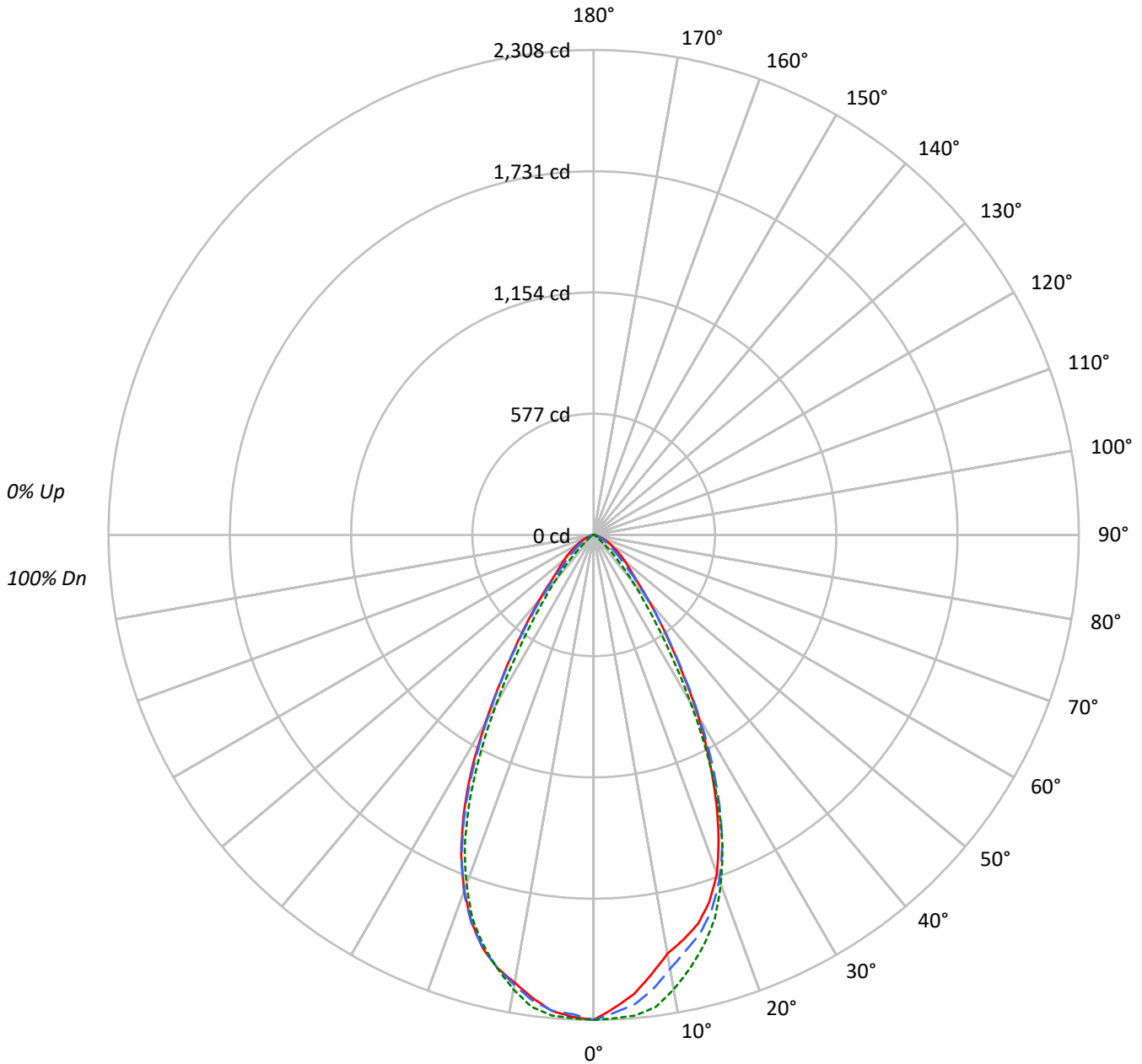
Lumens per Lamp: N/A
Luminaire Lumens: 2101.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
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°	283534	283534	283534
5°	270558	283075	280448
10°	252342	273898	269906
15°	243665	257274	259080
20°	224150	231132	235328
25°	185776	189152	198342
30°	141320	130709	145377
35°	95685	78318	96750
40°	65160	44873	63171
45°	45207	22604	42723
50°	36792	9193	34403
55°	29772	5719	27095
60°	23637	4374	21450
65°	18663	3634	16570
70°	14081	3197	12788
75°	10158	2516	9304
80°	7570	2547	6297
85°	5075	2537	5075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	10.1
10°-20°	557.5	26.5
20°-30°	639.7	30.4
30°-40°	388.6	18.5
40°-50°	166.5	7.9
50°-60°	79.9	3.8
60°-70°	38.9	1.8
70°-80°	14.4	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°	1409.4	67.1
0°-40°	1798.0	85.6
0°-60°	2044.4	97.3
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2308	2308	2308	2308	2308	
5°	2194	2242	2295	2272	2274	204
15°	1916	1960	2023	2035	2037	533
25°	1370	1415	1395	1449	1463	622
35°	638	647	522	631	645	409
45°	260	232	130	208	246	211
55°	139	103	27	93	126	125
65°	64	43	12	39	57	65
75°	21	14	5	12	20	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°	2307.9	2307.9	2307.9	2307.9	2307.9	2307.9	2307.9	2307.9	2307.9
2.5°	2252.7	2277.6	2275.8	2297.2	2302.6	2297.2	2283.0	2297.2	2295.4
5°	2193.9	2222.4	2242.0	2277.6	2295.4	2291.9	2272.3	2275.8	2274.1
7.5°	2108.3	2144.0	2177.8	2231.3	2265.1	2263.4	2234.8	2229.5	2222.4
10°	2022.8	2056.6	2095.8	2151.1	2195.6	2202.8	2174.3	2167.1	2163.6
12.5°	1972.9	1999.6	2026.3	2074.5	2113.7	2127.9	2111.9	2113.7	2111.9
15°	1915.8	1942.6	1960.4	1996.0	2022.8	2042.4	2035.2	2045.9	2037.0
17.5°	1830.3	1862.4	1869.5	1896.2	1915.8	1928.3	1935.4	1946.1	1931.9
20°	1714.5	1739.4	1748.3	1759.0	1767.9	1784.0	1805.3	1816.0	1800.0
22.5°	1552.3	1600.4	1598.6	1593.3	1602.2	1607.5	1641.4	1659.2	1646.7
25°	1370.5	1420.4	1415.0	1393.7	1395.4	1406.1	1448.9	1472.1	1463.2
27.5°	1179.8	1226.1	1213.7	1172.7	1162.0	1178.0	1233.3	1260.0	1254.7
30°	996.2	1026.5	1006.9	933.9	921.4	941.0	1012.3	1039.0	1024.8
32.5°	798.4	821.6	812.7	723.6	702.2	721.8	805.5	830.5	814.5
35°	638.0	659.4	646.9	541.8	522.2	543.6	630.9	659.4	645.1
37.5°	511.5	527.5	511.5	399.2	381.4	402.8	486.5	524.0	506.1
40°	406.3	418.8	397.4	294.1	279.8	290.5	368.9	406.3	393.9
42.5°	320.8	329.7	306.5	215.6	199.6	213.9	278.0	311.9	304.8
45°	260.2	260.2	231.7	149.7	130.1	144.4	208.5	244.2	245.9
47.5°	222.8	217.4	181.8	99.8	74.9	94.5	165.7	203.2	208.5
50°	192.5	185.3	149.7	73.1	48.1	67.7	137.2	174.7	180.0
52.5°	165.7	160.4	124.8	57.0	33.9	51.7	115.8	151.5	156.8
55°	139.0	135.4	103.4	44.6	26.7	39.2	92.7	123.0	126.5
57.5°	114.1	108.7	83.8	37.4	21.4	32.1	76.6	101.6	105.1
60°	96.2	90.9	67.7	30.3	17.8	25.0	62.4	83.8	87.3
62.5°	80.2	74.9	55.2	25.0	14.3	21.4	49.9	67.7	71.3
65°	64.2	60.6	42.8	19.6	12.5	16.0	39.2	53.5	57.0
67.5°	51.7	48.1	33.9	16.0	10.7	12.5	30.3	42.8	46.3
70°	39.2	35.6	25.0	12.5	8.9	10.7	23.2	32.1	35.6
72.5°	28.5	26.7	19.6	10.7	7.1	8.9	16.0	23.2	26.7
75°	21.4	19.6	14.3	7.1	5.3	7.1	12.5	17.8	19.6
77.5°	14.3	14.3	10.7	5.3	5.3	5.3	8.9	12.5	12.5
80°	10.7	8.9	7.1	3.6	3.6	3.6	5.3	8.9	8.9
82.5°	7.1	5.3	5.3	3.6	3.6	3.6	3.6	5.3	5.3
85°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	3.6	3.6
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)