

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: P857333

Luminaire Tested: **LD4C25D010 EU4259027 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857333
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 4LBMDSWWMH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

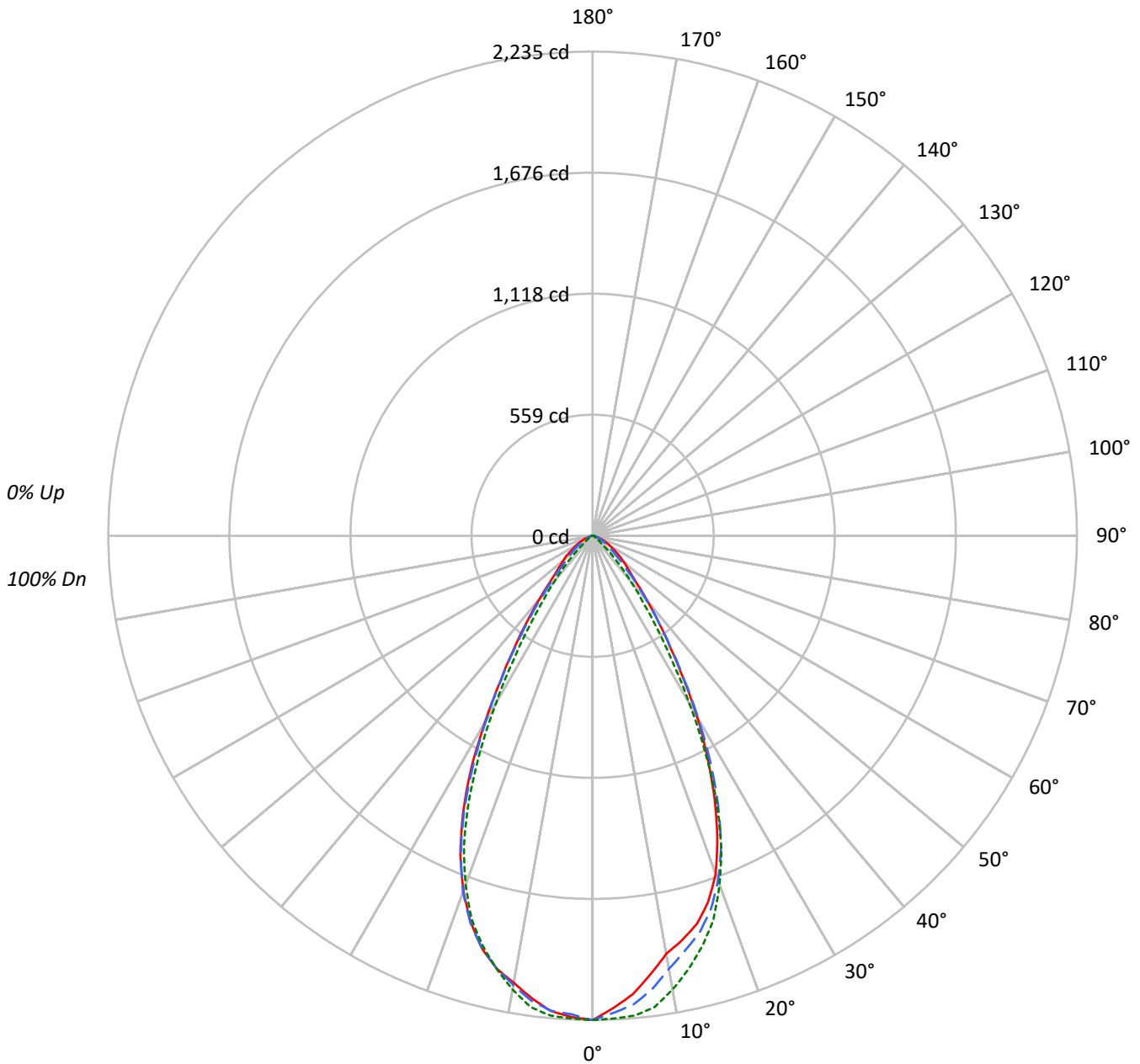
Lumens per Lamp: N/A
Luminaire Lumens: 2035.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	274627	274627	274627
5°	262049	274183	271631
10°	244408	265303	261423
15°	236021	249185	250940
20°	217103	223876	227942
25°	179934	183215	192107
30°	136880	126595	140809
35°	92685	75858	93720
40°	63123	43461	61183
45°	43783	21891	41385
50°	35626	8906	33313
55°	28830	5547	26260
60°	22900	4251	20787
65°	18052	3517	16046
70°	13650	3089	12392
75°	9826	2468	9019
80°	7358	2476	6084
85°	4934	2396	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	10.1
10°-20°	540.0	26.5
20°-30°	619.6	30.4
30°-40°	376.4	18.5
40°-50°	161.3	7.9
50°-60°	77.4	3.8
60°-70°	37.6	1.8
70°-80°	14.0	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°	1365.1	67.1
0°-40°	1741.5	85.6
0°-60°	1980.2	97.3
0°-90°	2035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2235	2235	2235	2235	2235	
5°	2125	2172	2223	2201	2203	197
15°	1856	1899	1959	1971	1973	517
25°	1327	1371	1352	1403	1417	602
35°	618	627	506	611	625	396
45°	252	224	126	202	238	205
55°	135	100	26	90	123	122
65°	62	41	12	38	55	63
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°	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4
2.5°	2181.9	2206.1	2204.3	2225.1	2230.2	2225.1	2211.3	2225.1	2223.3
5°	2124.9	2152.6	2171.5	2206.1	2223.3	2219.9	2200.9	2204.3	2202.6
7.5°	2042.1	2076.6	2109.4	2161.2	2194.0	2192.3	2164.6	2159.5	2152.6
10°	1959.2	1992.0	2030.0	2083.5	2126.7	2133.6	2106.0	2099.0	2095.6
12.5°	1910.9	1936.8	1962.7	2009.3	2047.3	2061.1	2045.5	2047.3	2045.5
15°	1855.7	1881.5	1898.8	1933.3	1959.2	1978.2	1971.3	1981.7	1973.0
17.5°	1772.8	1803.9	1810.8	1836.7	1855.7	1867.7	1874.6	1885.0	1871.2
20°	1660.6	1684.8	1693.4	1703.8	1712.4	1727.9	1748.6	1759.0	1743.5
22.5°	1503.5	1550.1	1548.4	1543.2	1551.8	1557.0	1589.8	1607.1	1595.0
25°	1327.4	1375.8	1370.6	1349.9	1351.6	1362.0	1403.4	1425.8	1417.2
27.5°	1142.7	1187.6	1175.5	1135.8	1125.5	1141.0	1194.5	1220.4	1215.2
30°	964.9	994.3	975.3	904.5	892.4	911.4	980.5	1006.4	992.6
32.5°	773.3	795.8	787.1	700.8	680.1	699.1	780.2	804.4	788.9
35°	618.0	638.7	626.6	524.8	505.8	526.5	611.1	638.7	624.9
37.5°	495.4	511.0	495.4	386.7	369.4	390.1	471.3	507.5	490.2
40°	393.6	405.7	384.9	284.8	271.0	281.4	357.3	393.6	381.5
42.5°	310.7	319.3	296.9	208.9	193.3	207.1	269.3	302.1	295.2
45°	252.0	252.0	224.4	145.0	126.0	139.8	202.0	236.5	238.2
47.5°	215.8	210.6	176.1	96.7	72.5	91.5	160.5	196.8	202.0
50°	186.4	179.5	145.0	70.8	46.6	65.6	132.9	169.2	174.3
52.5°	160.5	155.4	120.8	55.2	32.8	50.1	112.2	146.7	151.9
55°	134.6	131.2	100.1	43.2	25.9	38.0	89.8	119.1	122.6
57.5°	110.5	105.3	81.1	36.3	20.7	31.1	74.2	98.4	101.8
60°	93.2	88.0	65.6	29.3	17.3	24.2	60.4	81.1	84.6
62.5°	77.7	72.5	53.5	24.2	13.8	20.7	48.3	65.6	69.0
65°	62.1	58.7	41.4	19.0	12.1	15.5	38.0	51.8	55.2
67.5°	50.1	46.6	32.8	15.5	10.4	12.1	29.3	41.4	44.9
70°	38.0	34.5	24.2	12.1	8.6	10.4	22.4	31.1	34.5
72.5°	27.6	25.9	19.0	10.4	6.9	8.6	15.5	22.4	25.9
75°	20.7	19.0	13.8	6.9	5.2	6.9	12.1	17.3	19.0
77.5°	13.8	13.8	10.4	5.2	5.2	5.2	8.6	12.1	12.1
80°	10.4	8.6	6.9	3.5	3.5	3.5	5.2	8.6	8.6
82.5°	6.9	5.2	5.2	3.5	3.5	3.5	3.5	5.2	5.2
85°	3.5	3.5	3.5	1.7	1.7	1.7	1.7	3.5	3.5
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)