

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: P857509

Luminaire Tested: **LD4C30D010 EU4309027 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857509
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: LD4C30D010 EU4309027 4LBMDSWWMH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

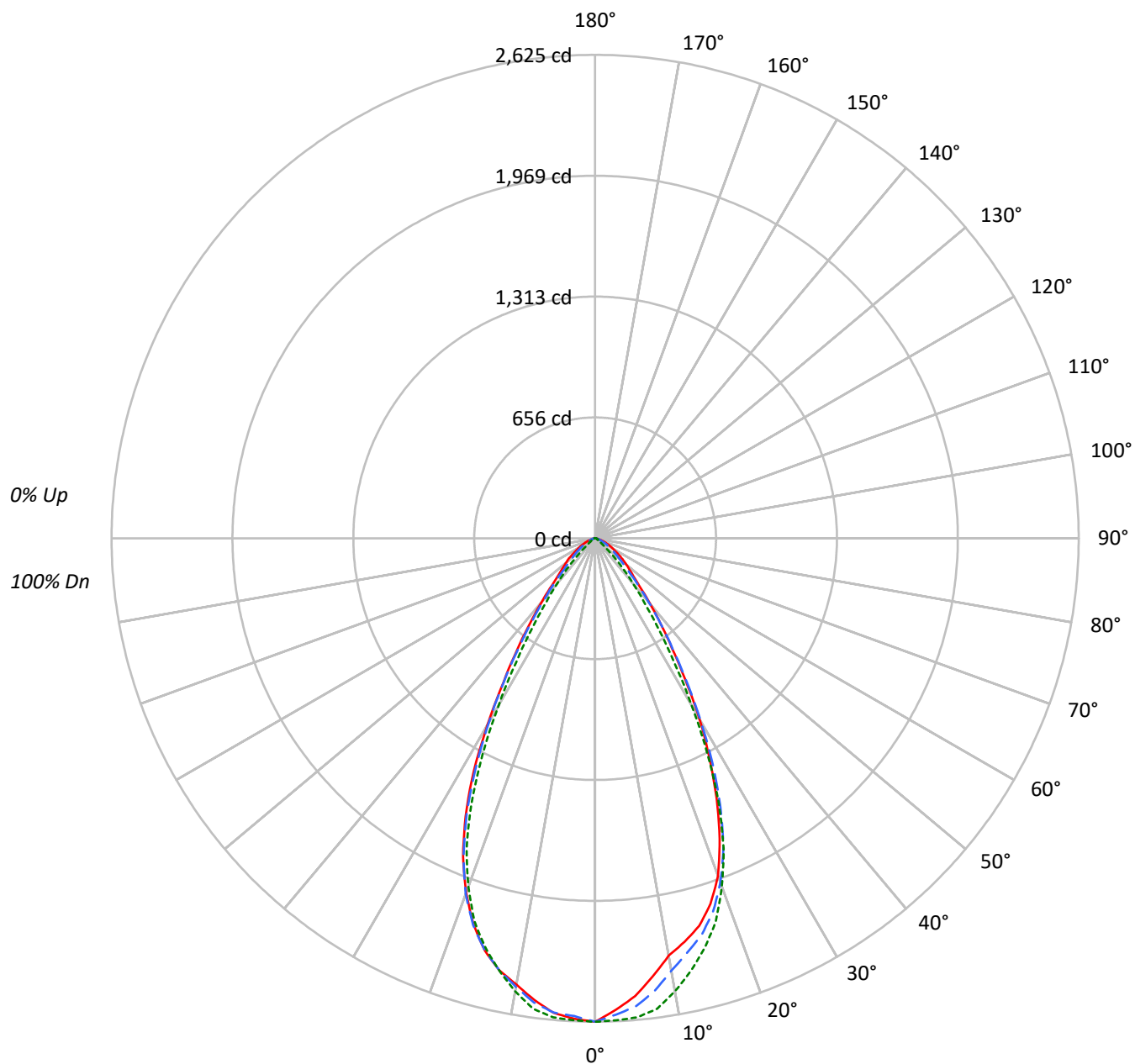
Lumens per Lamp: N/A
Luminaire Lumens: 2390.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	322540	322540	322540
5°	307764	322020	319024
10°	287047	311585	307031
15°	277192	292658	294718
20°	254978	262927	267699
25°	211328	215178	225616
30°	160769	148682	165365
35°	108853	89086	110068
40°	74125	51047	71847
45°	51427	25714	48613
50°	41857	10455	39143
55°	33863	6511	30822
60°	26905	4988	24399
65°	21221	4128	18866
70°	16020	3628	14548
75°	11534	2895	10585
80°	8631	2901	7146
85°	5779	2819	5779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	10.1
10°-20°	634.2	26.5
20°-30°	727.7	30.4
30°-40°	442.0	18.5
40°-50°	189.4	7.9
50°-60°	90.9	3.8
60°-70°	44.2	1.8
70°-80°	16.4	0.7
80°-90°	3.8	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°	1603.3	67.1
0°-40°	2045.3	85.6
0°-60°	2325.6	97.3
0°-90°	2390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2625	2625	2625	2625	2625	
5°	2496	2550	2611	2585	2587	232
15°	2179	2230	2301	2315	2317	607
25°	1559	1610	1587	1648	1664	707
35°	726	736	594	718	734	465
45°	296	264	148	237	280	240
55°	158	118	30	105	144	143
65°	73	49	14	45	65	74
75°	24	16	6	14	22	27
85°	4	4	2	2	4	6
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°	2625.4	2625.4	2625.4	2625.4	2625.4	2625.4	2625.4	2625.4	2625.4
2.5°	2562.5	2590.9	2588.9	2613.2	2619.3	2613.2	2597.0	2613.2	2611.2
5°	2495.6	2528.1	2550.4	2590.9	2611.2	2607.1	2584.8	2588.9	2586.9
7.5°	2398.3	2438.9	2477.4	2538.2	2576.7	2574.7	2542.3	2536.2	2528.1
10°	2301.0	2339.5	2384.1	2447.0	2497.7	2505.8	2473.3	2465.2	2461.2
12.5°	2244.2	2274.7	2305.1	2359.8	2404.4	2420.6	2402.4	2404.4	2402.4
15°	2179.4	2209.8	2230.1	2270.6	2301.0	2323.3	2315.2	2327.4	2317.2
17.5°	2082.1	2118.6	2126.7	2157.1	2179.4	2193.6	2201.7	2213.8	2197.6
20°	1950.3	1978.7	1988.8	2001.0	2011.1	2029.3	2053.7	2065.8	2047.6
22.5°	1765.8	1820.5	1818.5	1812.4	1822.6	1828.6	1867.2	1887.4	1873.2
25°	1559.0	1615.8	1609.7	1585.4	1587.4	1599.6	1648.2	1674.6	1664.4
27.5°	1342.1	1394.8	1380.6	1334.0	1321.8	1340.1	1402.9	1433.3	1427.2
30°	1133.3	1167.7	1145.4	1062.3	1048.1	1070.4	1151.5	1181.9	1165.7
32.5°	908.2	934.6	924.5	823.1	798.8	821.1	916.3	944.7	926.5
35°	725.8	750.1	735.9	616.3	594.0	618.3	717.7	750.1	733.9
37.5°	581.8	600.1	581.8	454.1	433.8	458.2	553.5	596.0	575.8
40°	462.2	476.4	452.1	334.5	318.3	330.5	419.7	462.2	448.0
42.5°	364.9	375.1	348.7	245.3	227.1	243.3	316.3	354.8	346.7
45°	296.0	296.0	263.6	170.3	148.0	164.2	237.2	277.7	279.8
47.5°	253.4	247.3	206.8	113.5	85.1	107.4	188.5	231.1	237.2
50°	219.0	210.8	170.3	83.1	54.7	77.0	156.1	198.7	204.8
52.5°	188.5	182.5	141.9	64.9	38.5	58.8	131.8	172.3	178.4
55°	158.1	154.1	117.6	50.7	30.4	44.6	105.4	139.9	143.9
57.5°	129.7	123.7	95.3	42.6	24.3	36.5	87.2	115.6	119.6
60°	109.5	103.4	77.0	34.5	20.3	28.4	71.0	95.3	99.3
62.5°	91.2	85.1	62.8	28.4	16.2	24.3	56.8	77.0	81.1
65°	73.0	68.9	48.7	22.3	14.2	18.2	44.6	60.8	64.9
67.5°	58.8	54.7	38.5	18.2	12.2	14.2	34.5	48.7	52.7
70°	44.6	40.5	28.4	14.2	10.1	12.2	26.4	36.5	40.5
72.5°	32.4	30.4	22.3	12.2	8.1	10.1	18.2	26.4	30.4
75°	24.3	22.3	16.2	8.1	6.1	8.1	14.2	20.3	22.3
77.5°	16.2	16.2	12.2	6.1	6.1	6.1	10.1	14.2	14.2
80°	12.2	10.1	8.1	4.1	4.1	4.1	6.1	10.1	10.1
82.5°	8.1	6.1	6.1	4.1	4.1	4.1	4.1	6.1	6.1
85°	4.1	4.1	4.1	2.0	2.0	2.0	2.0	4.1	4.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)