

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: P857547

Luminaire Tested: **LD4C30D010 EU4309035 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857547
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 EU4309035 4LBMDSWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

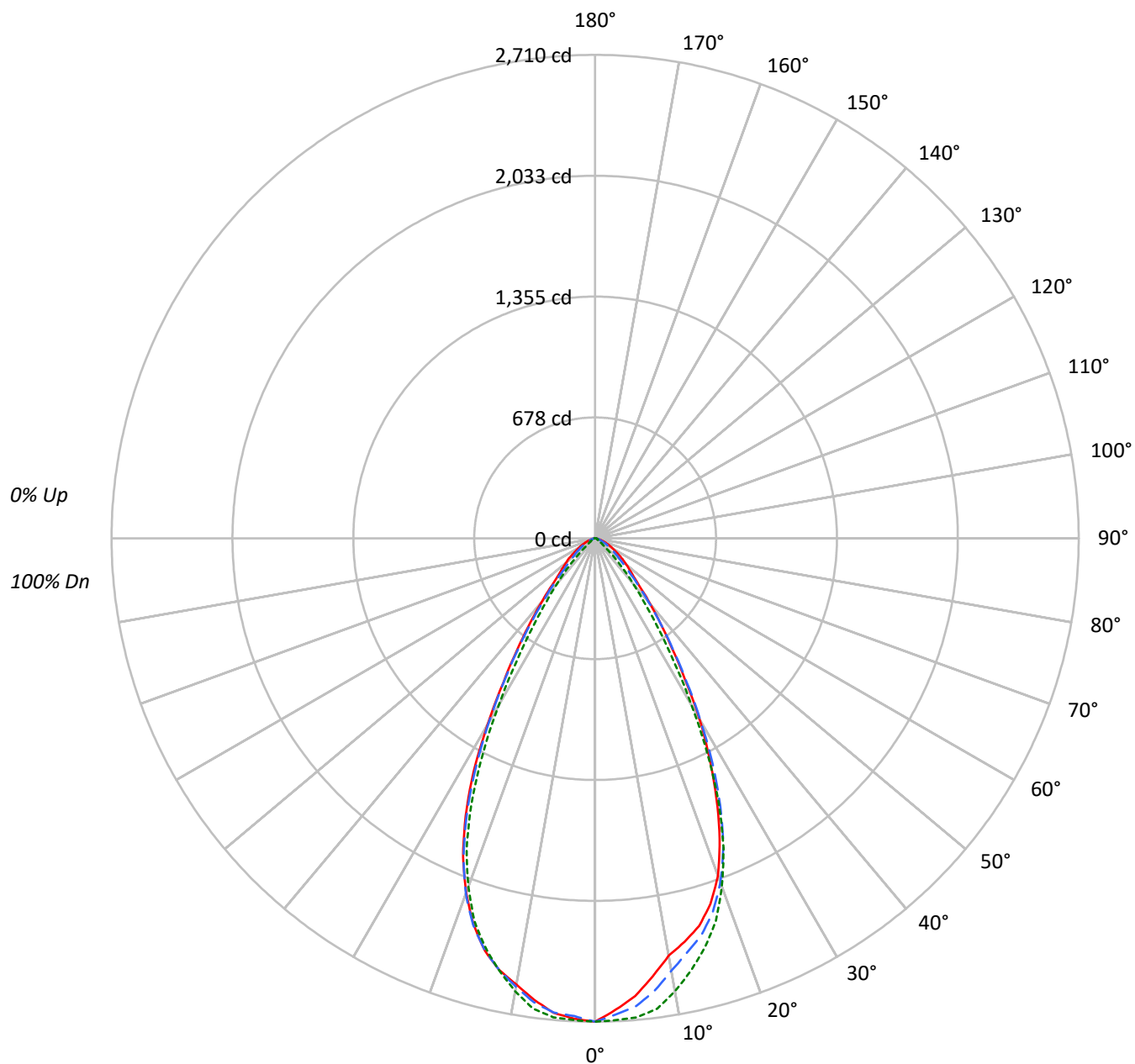
Lumens per Lamp: N/A
Luminaire Lumens: 2467.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	332933	332933	332933
5°	317679	332392	329296
10°	296291	321615	316924
15°	286120	302083	304219
20°	263189	271399	276328
25°	218133	222105	232895
30°	165947	153477	170699
35°	112362	91951	113607
40°	76514	52683	74173
45°	53078	26548	50176
50°	43194	10799	40404
55°	34956	6726	31828
60°	27765	5135	25185
65°	21889	4244	19477
70°	16523	3772	15050
75°	11914	2990	10917
80°	8914	2971	7429
85°	5920	2960	5920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	10.1
10°-20°	654.7	26.5
20°-30°	751.1	30.4
30°-40°	456.3	18.5
40°-50°	195.5	7.9
50°-60°	93.8	3.8
60°-70°	45.6	1.8
70°-80°	16.9	0.7
80°-90°	3.9	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°	1654.9	67.1
0°-40°	2111.2	85.6
0°-60°	2400.6	97.3
0°-90°	2467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2710	2710	2710	2710	2710	
5°	2576	2632	2695	2668	2670	239
15°	2250	2302	2375	2390	2392	626
25°	1609	1662	1638	1701	1718	730
35°	749	760	613	741	758	480
45°	306	272	153	245	289	248
55°	163	121	31	109	149	147
65°	75	50	15	46	67	76
75°	25	17	6	15	23	28
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°	2710.0	2710.0	2710.0	2710.0	2710.0	2710.0	2710.0	2710.0	2710.0
2.5°	2645.1	2674.4	2672.3	2697.4	2703.7	2697.4	2680.7	2697.4	2695.3
5°	2576.0	2609.5	2632.5	2674.4	2695.3	2691.1	2668.1	2672.3	2670.2
7.5°	2475.6	2517.4	2557.2	2620.0	2659.7	2657.6	2624.2	2617.9	2609.5
10°	2375.1	2414.9	2460.9	2525.8	2578.1	2586.5	2553.0	2544.6	2540.5
12.5°	2316.5	2347.9	2379.3	2435.8	2481.9	2498.6	2479.8	2481.9	2479.8
15°	2249.6	2281.0	2301.9	2343.8	2375.1	2398.2	2389.8	2402.3	2391.9
17.5°	2149.1	2186.8	2195.2	2226.6	2249.6	2264.2	2272.6	2285.2	2268.4
20°	2013.1	2042.4	2052.9	2065.4	2075.9	2094.7	2119.8	2132.4	2113.6
22.5°	1822.7	1879.2	1877.1	1870.8	1881.3	1887.6	1927.3	1948.2	1933.6
25°	1609.2	1667.8	1661.6	1636.4	1638.5	1651.1	1701.3	1728.5	1718.1
27.5°	1385.3	1439.7	1425.1	1377.0	1364.4	1383.2	1448.1	1479.5	1473.2
30°	1169.8	1205.4	1182.3	1096.5	1081.9	1104.9	1188.6	1220.0	1203.3
32.5°	937.5	964.7	954.2	849.6	824.5	847.5	945.9	975.2	956.3
35°	749.2	774.3	759.6	636.2	613.1	638.3	740.8	774.3	757.5
37.5°	600.6	619.4	600.6	468.8	447.8	472.9	571.3	615.2	594.3
40°	477.1	491.8	466.7	345.3	328.5	341.1	433.2	477.1	462.5
42.5°	376.7	387.1	359.9	253.2	234.4	251.1	326.5	366.2	357.8
45°	305.5	305.5	272.0	175.8	152.8	169.5	244.8	286.7	288.8
47.5°	261.6	255.3	213.4	117.2	87.9	110.9	194.6	238.6	244.8
50°	226.0	217.6	175.8	85.8	56.5	79.5	161.1	205.1	211.4
52.5°	194.6	188.3	146.5	67.0	39.8	60.7	136.0	177.9	184.2
55°	163.2	159.0	121.4	52.3	31.4	46.0	108.8	144.4	148.6
57.5°	133.9	127.7	98.4	43.9	25.1	37.7	90.0	119.3	123.5
60°	113.0	106.7	79.5	35.6	20.9	29.3	73.2	98.4	102.5
62.5°	94.2	87.9	64.9	29.3	16.7	25.1	58.6	79.5	83.7
65°	75.3	71.1	50.2	23.0	14.6	18.8	46.0	62.8	67.0
67.5°	60.7	56.5	39.8	18.8	12.6	14.6	35.6	50.2	54.4
70°	46.0	41.9	29.3	14.6	10.5	12.6	27.2	37.7	41.9
72.5°	33.5	31.4	23.0	12.6	8.4	10.5	18.8	27.2	31.4
75°	25.1	23.0	16.7	8.4	6.3	8.4	14.6	20.9	23.0
77.5°	16.7	16.7	12.6	6.3	6.3	6.3	10.5	14.6	14.6
80°	12.6	10.5	8.4	4.2	4.2	4.2	6.3	10.5	10.5
82.5°	8.4	6.3	6.3	4.2	4.2	4.2	4.2	6.3	6.3
85°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)