

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: P857589

Luminaire Tested: **LD4C30D010 EU4309050 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857589
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 EU4309050 4LBMDSWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

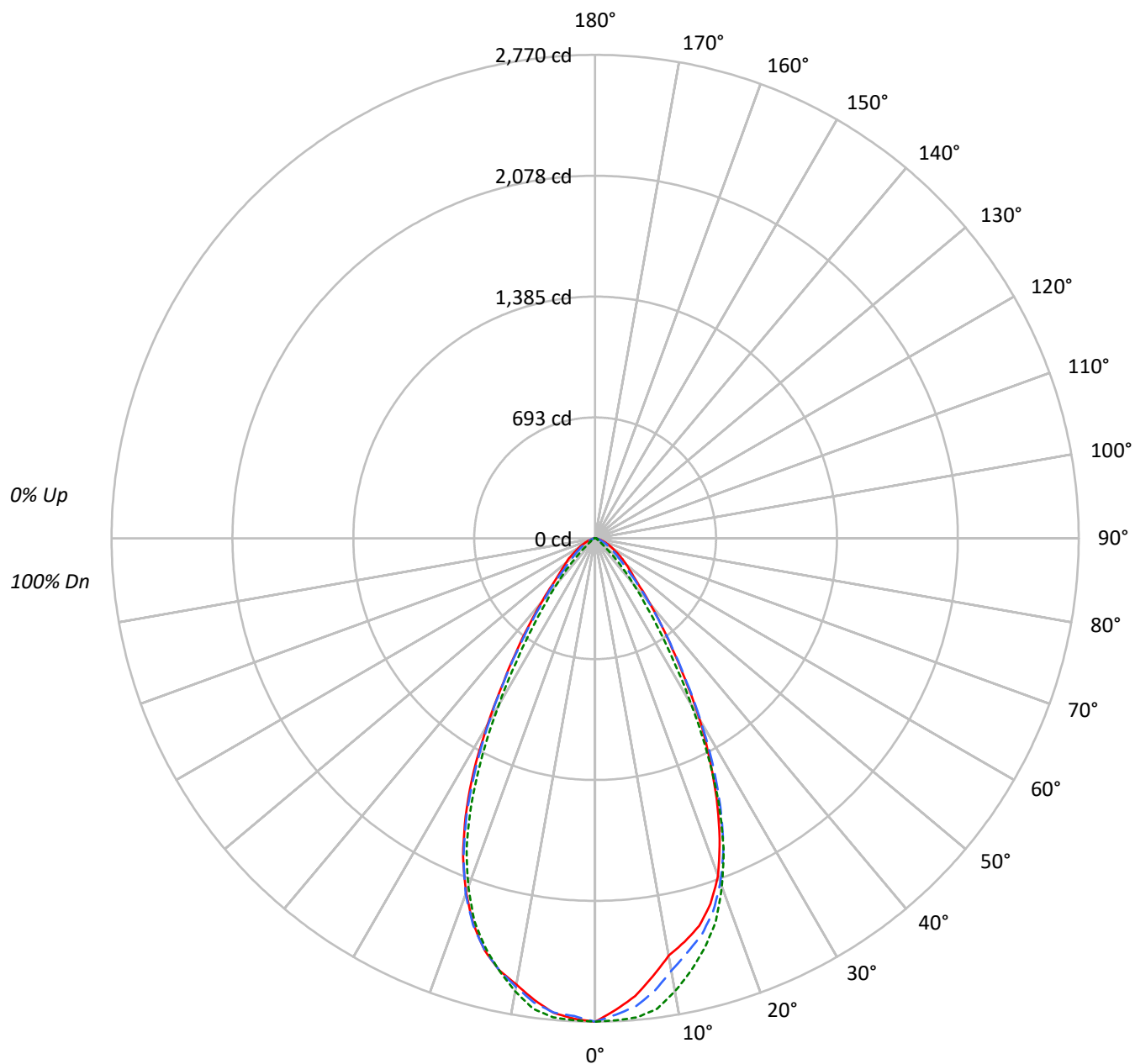
Lumens per Lamp: N/A
Luminaire Lumens: 2522.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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°	340353	340353	340353
5°	324770	339804	336634
10°	302902	328788	323985
15°	292493	308823	310998
20°	269059	277452	282485
25°	223000	227066	238087
30°	169649	156896	174501
35°	114867	94005	116142
40°	78230	53870	75825
45°	54259	27138	51288
50°	44150	11047	41302
55°	35748	6875	32535
60°	28379	5258	25750
65°	22384	4360	19913
70°	16918	3843	15374
75°	12199	3038	11155
80°	9056	3042	7570
85°	6061	2960	6061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	10.1
10°-20°	669.2	26.5
20°-30°	767.9	30.4
30°-40°	466.5	18.5
40°-50°	199.9	7.9
50°-60°	95.9	3.8
60°-70°	46.6	1.8
70°-80°	17.3	0.7
80°-90°	4.0	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°	1691.8	67.1
0°-40°	2158.3	85.6
0°-60°	2454.1	97.3
0°-90°	2522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2770	2770	2770	2770	2770	
5°	2634	2691	2755	2728	2730	245
15°	2300	2353	2428	2443	2445	640
25°	1645	1699	1675	1739	1756	746
35°	766	777	627	757	774	491
45°	312	278	156	250	295	254
55°	167	124	32	111	152	151
65°	77	51	15	47	68	78
75°	26	17	6	15	24	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°	2770.4	2770.4	2770.4	2770.4	2770.4	2770.4	2770.4	2770.4	2770.4
2.5°	2704.1	2734.0	2731.9	2757.5	2764.0	2757.5	2740.4	2757.5	2755.4
5°	2633.5	2667.7	2691.2	2734.0	2755.4	2751.1	2727.6	2731.9	2729.7
7.5°	2530.8	2573.6	2614.2	2678.4	2719.0	2716.9	2682.7	2676.3	2667.7
10°	2428.1	2468.7	2515.8	2582.1	2635.6	2644.2	2609.9	2601.4	2597.1
12.5°	2368.2	2400.3	2432.4	2490.1	2537.2	2554.3	2535.1	2537.2	2535.1
15°	2299.7	2331.8	2353.2	2396.0	2428.1	2451.6	2443.1	2455.9	2445.2
17.5°	2197.1	2235.6	2244.1	2276.2	2299.7	2314.7	2323.3	2336.1	2319.0
20°	2058.0	2087.9	2098.6	2111.5	2122.2	2141.4	2167.1	2179.9	2160.7
22.5°	1863.3	1921.1	1918.9	1912.5	1923.2	1929.6	1970.3	1991.7	1976.7
25°	1645.1	1705.0	1698.6	1672.9	1675.1	1687.9	1739.2	1767.1	1756.4
27.5°	1416.2	1471.8	1456.9	1407.7	1394.8	1414.1	1480.4	1512.5	1506.1
30°	1195.9	1232.2	1208.7	1121.0	1106.0	1129.5	1215.1	1247.2	1230.1
32.5°	958.4	986.2	975.5	868.6	842.9	866.4	967.0	996.9	977.7
35°	765.9	791.5	776.6	650.3	626.8	652.5	757.3	791.5	774.4
37.5°	614.0	633.2	614.0	479.2	457.8	483.5	584.0	629.0	607.6
40°	487.8	502.7	477.1	353.0	335.9	348.7	442.8	487.8	472.8
42.5°	385.1	395.8	368.0	258.9	239.6	256.7	333.7	374.4	365.8
45°	312.3	312.3	278.1	179.7	156.2	173.3	250.3	293.1	295.2
47.5°	267.4	261.0	218.2	119.8	89.9	113.4	199.0	243.9	250.3
50°	231.0	222.5	179.7	87.7	57.8	81.3	164.7	209.7	216.1
52.5°	199.0	192.5	149.8	68.5	40.6	62.0	139.1	181.8	188.3
55°	166.9	162.6	124.1	53.5	32.1	47.1	111.2	147.6	151.9
57.5°	136.9	130.5	100.5	44.9	25.7	38.5	92.0	121.9	126.2
60°	115.5	109.1	81.3	36.4	21.4	30.0	74.9	100.5	104.8
62.5°	96.3	89.9	66.3	30.0	17.1	25.7	59.9	81.3	85.6
65°	77.0	72.7	51.3	23.5	15.0	19.3	47.1	64.2	68.5
67.5°	62.0	57.8	40.6	19.3	12.8	15.0	36.4	51.3	55.6
70°	47.1	42.8	30.0	15.0	10.7	12.8	27.8	38.5	42.8
72.5°	34.2	32.1	23.5	12.8	8.6	10.7	19.3	27.8	32.1
75°	25.7	23.5	17.1	8.6	6.4	8.6	15.0	21.4	23.5
77.5°	17.1	17.1	12.8	6.4	6.4	6.4	10.7	15.0	15.0
80°	12.8	10.7	8.6	4.3	4.3	4.3	6.4	10.7	10.7
82.5°	8.6	6.4	6.4	4.3	4.3	4.3	4.3	6.4	6.4
85°	4.3	4.3	4.3	2.1	2.1	2.1	2.1	4.3	4.3
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)