

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: P857506

Luminaire Tested: **LD4C30D010 EU4309027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C30D010 EU4309027 4LBMDSWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

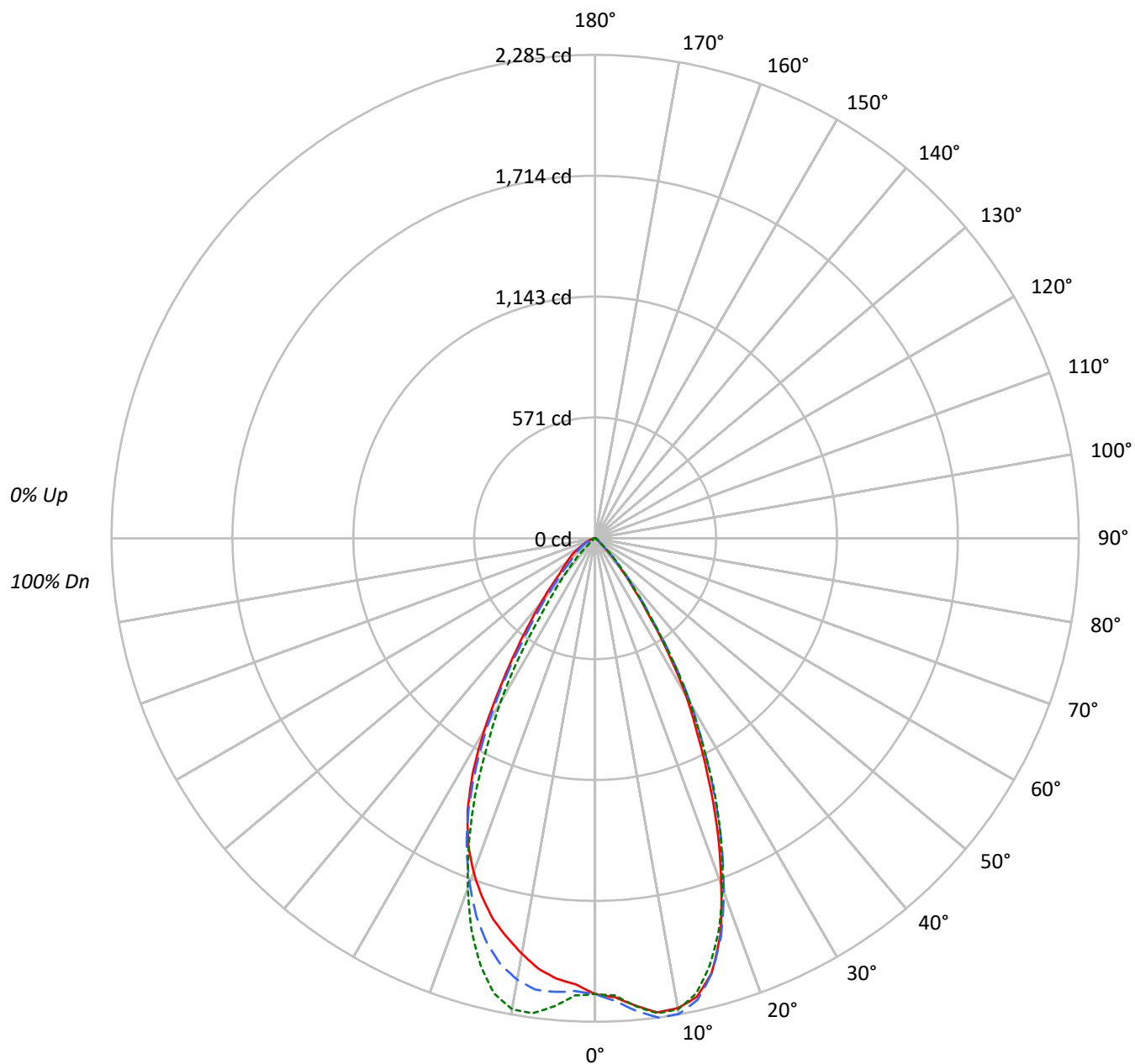
Lumens per Lamp: N/A
Luminaire Lumens: 1915.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54		
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	264614	264614	264614
5°	273629	273814	257634
10°	281208	281945	248649
15°	270578	265885	237013
20°	227824	229942	219535
25°	173062	181859	193246
30°	121715	126737	148697
35°	65675	68764	98400
40°	31690	34994	63845
45°	11276	15376	41489
50°	4224	5352	33256
55°	3149	3791	27480
60°	2531	2899	19927
65°	2151	2558	15436
70°	1580	2119	12177
75°	1377	2089	9114
80°	1061	2052	6226
85°	0	2114	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	11.0
10°-20°	565.8	29.5
20°-30°	613.7	32.0
30°-40°	340.5	17.8
40°-50°	108.5	5.7
50°-60°	43.7	2.3
60°-70°	22.1	1.2
70°-80°	9.1	0.5
80°-90°	1.9	0.1
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°	1389.2	72.5
0°-40°	1729.7	90.3
0°-60°	1881.9	98.3
0°-90°	1915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2154	2154	2154	2154	2154	
5°	2219	2242	2220	2152	2089	213
15°	2127	2129	2090	1978	1864	582
25°	1277	1330	1342	1414	1426	583
35°	438	473	458	606	656	290
45°	65	77	88	198	239	62
55°	15	15	18	94	128	13
65°	7	7	9	43	53	7
75°	3	3	4	15	19	3
85°	0	0	2	3	3	0
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°	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9
2.5°	2171.6	2190.8	2189.3	2174.6	2162.8	2158.4	2142.1	2123.0	2109.7
5°	2218.8	2242.4	2242.4	2230.6	2220.3	2195.2	2152.5	2111.2	2089.1
7.5°	2260.1	2283.7	2285.2	2276.3	2264.5	2223.2	2152.5	2086.1	2052.2
10°	2254.2	2271.9	2282.2	2273.4	2260.1	2205.5	2118.6	2030.1	1993.2
12.5°	2220.3	2236.5	2235.0	2221.8	2204.1	2148.0	2062.5	1971.1	1929.9
15°	2127.4	2136.3	2128.9	2114.1	2090.5	2047.8	1978.5	1900.4	1863.5
17.5°	1966.7	1978.5	1975.6	1952.0	1943.1	1901.8	1869.4	1809.0	1776.5
20°	1742.6	1779.5	1779.5	1761.8	1758.8	1730.8	1735.2	1702.8	1679.2
22.5°	1517.0	1549.5	1559.8	1552.4	1558.3	1545.1	1586.3	1577.5	1565.7
25°	1276.7	1309.2	1329.8	1326.9	1341.6	1341.6	1413.8	1431.5	1425.6
27.5°	1051.2	1082.1	1105.7	1111.6	1102.8	1119.0	1217.8	1253.2	1253.2
30°	858.0	883.1	905.2	905.2	893.4	905.2	1009.9	1051.2	1048.2
32.5°	639.8	667.9	688.5	685.5	675.2	691.4	802.0	843.3	833.0
35°	437.9	457.0	473.2	467.4	458.5	485.0	605.9	657.5	656.1
37.5°	296.3	314.0	324.3	319.9	317.0	347.9	458.5	516.0	513.1
40°	197.6	209.3	216.7	215.2	218.2	244.7	345.0	398.1	398.1
42.5°	125.3	132.7	140.1	140.1	147.4	175.4	262.4	308.1	308.1
45°	64.9	69.3	76.7	81.1	88.5	117.9	197.6	235.9	238.8
47.5°	31.0	32.4	35.4	36.9	42.8	73.7	151.9	193.1	202.0
50°	22.1	23.6	23.6	23.6	28.0	56.0	128.3	166.6	174.0
52.5°	17.7	17.7	17.7	19.2	22.1	47.2	110.6	144.5	150.4
55°	14.7	14.7	14.7	14.7	17.7	38.3	94.4	123.8	128.3
57.5°	11.8	11.8	11.8	11.8	14.7	31.0	78.1	98.8	100.3
60°	10.3	10.3	10.3	10.3	11.8	26.5	63.4	81.1	81.1
62.5°	8.8	8.8	8.8	8.8	10.3	22.1	53.1	66.3	64.9
65°	7.4	7.4	7.4	7.4	8.8	17.7	42.8	53.1	53.1
67.5°	5.9	5.9	5.9	5.9	7.4	14.7	33.9	42.8	42.8
70°	4.4	4.4	4.4	4.4	5.9	11.8	28.0	33.9	33.9
72.5°	4.4	4.4	4.4	4.4	4.4	8.8	20.6	26.5	25.1
75°	2.9	2.9	2.9	2.9	4.4	7.4	14.7	19.2	19.2
77.5°	2.9	2.9	2.9	2.9	2.9	5.9	11.8	13.3	13.3
80°	1.5	1.5	1.5	1.5	2.9	4.4	7.4	8.8	8.8
82.5°	0.0	1.5	0.0	1.5	1.5	2.9	5.9	5.9	5.9
85°	0.0	0.0	0.0	0.0	1.5	1.5	2.9	4.4	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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)