

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: P857706

Luminaire Tested: **LD4C35D010 EU4359027 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857706
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: LD4C35D010 EU4359027 4LBMDSWGPH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

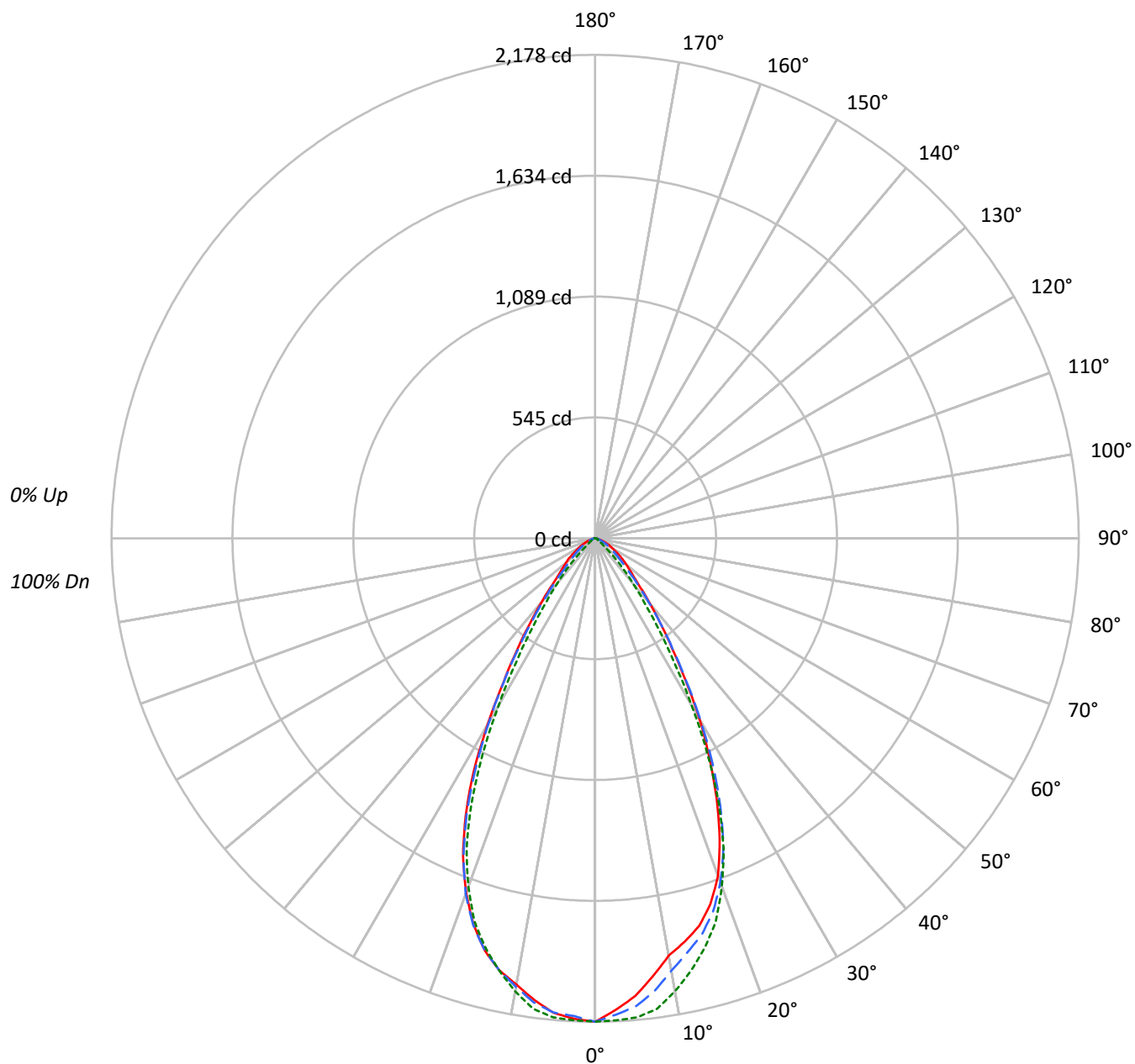
Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 49.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	267612	267612	267612
5°	255352	267179	264688
10°	238170	258517	254737
15°	229980	242826	244530
20°	211560	218149	222111
25°	175339	178538	187200
30°	133390	123361	137206
35°	90316	73923	91321
40°	61503	42355	59611
45°	42671	21335	40325
50°	34728	8677	32472
55°	28102	5398	25574
60°	22310	4128	20246
65°	17616	3430	15639
70°	13290	3017	12069
75°	9588	2373	8781
80°	7146	2405	5943
85°	4793	2396	4793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	10.1
10°-20°	526.2	26.5
20°-30°	603.7	30.4
30°-40°	366.8	18.5
40°-50°	157.2	7.9
50°-60°	75.4	3.8
60°-70°	36.7	1.8
70°-80°	13.6	0.7
80°-90°	3.1	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°	1330.2	67.1
0°-40°	1697.0	85.6
0°-60°	1929.6	97.3
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2178	2178	2178	2178	2178	
5°	2071	2116	2166	2145	2146	192
15°	1808	1850	1909	1921	1923	503
25°	1294	1336	1317	1368	1381	587
35°	602	611	493	596	609	386
45°	246	219	123	197	232	200
55°	131	98	25	88	119	118
65°	61	40	12	37	54	61
75°	20	14	5	12	18	22
85°	3	3	2	2	3	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°	2178.3	2178.3	2178.3	2178.3	2178.3	2178.3	2178.3	2178.3	2178.3
2.5°	2126.2	2149.7	2148.0	2168.2	2173.3	2168.2	2154.7	2168.2	2166.5
5°	2070.6	2097.6	2116.1	2149.7	2166.5	2163.2	2144.7	2148.0	2146.3
7.5°	1989.9	2023.5	2055.5	2106.0	2137.9	2136.2	2109.3	2104.3	2097.6
10°	1909.2	1941.1	1978.1	2030.3	2072.3	2079.1	2052.1	2045.4	2042.0
12.5°	1862.1	1887.3	1912.5	1957.9	1994.9	2008.4	1993.3	1994.9	1993.3
15°	1808.2	1833.5	1850.3	1883.9	1909.2	1927.7	1920.9	1931.0	1922.6
17.5°	1727.5	1757.8	1764.5	1789.7	1808.2	1820.0	1826.7	1836.8	1823.4
20°	1618.2	1641.7	1650.1	1660.2	1668.6	1683.8	1703.9	1714.0	1698.9
22.5°	1465.1	1510.5	1508.8	1503.8	1512.2	1517.2	1549.2	1566.0	1554.2
25°	1293.5	1340.6	1335.6	1315.4	1317.1	1327.2	1367.5	1389.4	1381.0
27.5°	1113.5	1157.3	1145.5	1106.8	1096.7	1111.9	1164.0	1189.2	1184.2
30°	940.3	968.9	950.4	881.4	869.6	888.1	955.4	980.7	967.2
32.5°	753.6	775.4	767.0	682.9	662.7	681.2	760.3	783.9	768.7
35°	602.2	622.4	610.6	511.4	492.9	513.0	595.5	622.4	608.9
37.5°	482.8	497.9	482.8	376.8	360.0	380.2	459.2	494.5	477.7
40°	383.5	395.3	375.1	277.5	264.1	274.2	348.2	383.5	371.7
42.5°	302.8	311.2	289.3	203.5	188.4	201.8	262.4	294.4	287.6
45°	245.6	245.6	218.7	141.3	122.8	136.2	196.8	230.4	232.1
47.5°	210.3	205.2	171.6	94.2	70.6	89.2	156.4	191.8	196.8
50°	181.7	174.9	141.3	69.0	45.4	63.9	129.5	164.8	169.9
52.5°	156.4	151.4	117.7	53.8	32.0	48.8	109.3	143.0	148.0
55°	131.2	127.8	97.6	42.1	25.2	37.0	87.5	116.1	119.4
57.5°	107.7	102.6	79.1	35.3	20.2	30.3	72.3	95.9	99.2
60°	90.8	85.8	63.9	28.6	16.8	23.5	58.9	79.1	82.4
62.5°	75.7	70.6	52.1	23.5	13.5	20.2	47.1	63.9	67.3
65°	60.6	57.2	40.4	18.5	11.8	15.1	37.0	50.5	53.8
67.5°	48.8	45.4	32.0	15.1	10.1	11.8	28.6	40.4	43.7
70°	37.0	33.6	23.5	11.8	8.4	10.1	21.9	30.3	33.6
72.5°	26.9	25.2	18.5	10.1	6.7	8.4	15.1	21.9	25.2
75°	20.2	18.5	13.5	6.7	5.0	6.7	11.8	16.8	18.5
77.5°	13.5	13.5	10.1	5.0	5.0	5.0	8.4	11.8	11.8
80°	10.1	8.4	6.7	3.4	3.4	3.4	5.0	8.4	8.4
82.5°	6.7	5.0	5.0	3.4	3.4	3.4	3.4	5.0	5.0
85°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	3.4	3.4
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)