

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: P857727

Luminaire Tested: **LD4C35D010 EU4359030 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857727
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 EU4359030 4LBMDSWGPH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

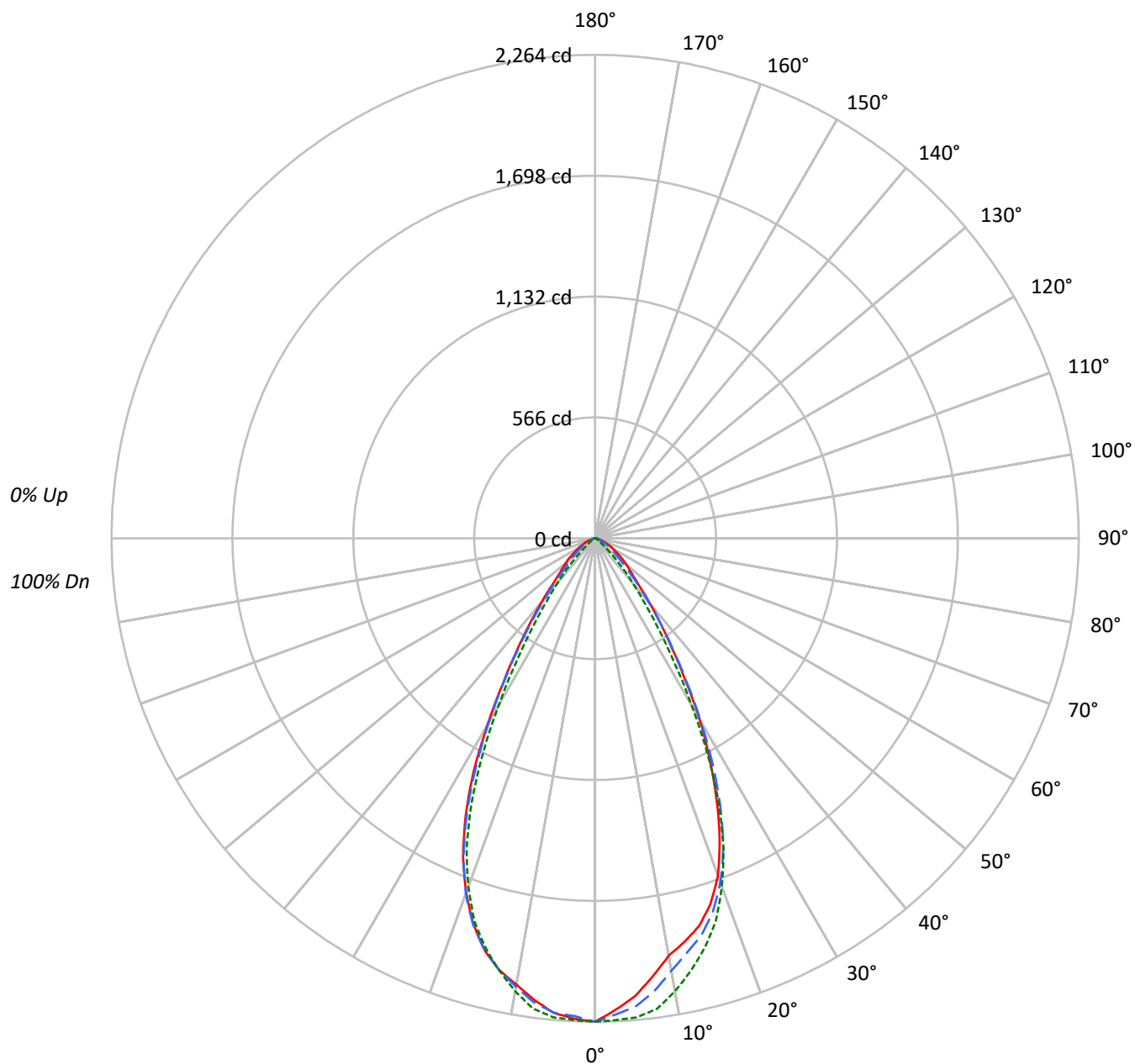
Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	278140	278140	278140
5°	265403	277686	275108
10°	247539	268684	264767
15°	239036	252378	254146
20°	219875	226739	230844
25°	182239	185560	194560
30°	138639	128212	142597
35°	93870	76818	94920
40°	63925	44023	61968
45°	44339	22169	41924
50°	36085	9021	33753
55°	29215	5612	26581
60°	23195	4300	21057
65°	18285	3546	16250
70°	13829	3125	12572
75°	9968	2468	9114
80°	7429	2476	6155
85°	4934	2396	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	10.1
10°-20°	546.9	26.5
20°-30°	627.5	30.4
30°-40°	381.2	18.5
40°-50°	163.4	7.9
50°-60°	78.4	3.8
60°-70°	38.1	1.8
70°-80°	14.1	0.7
80°-90°	3.2	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°	1382.6	67.1
0°-40°	1763.8	85.6
0°-60°	2005.5	97.3
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2264	2264	2264	2264	2264	
5°	2152	2199	2252	2229	2231	200
15°	1879	1923	1984	1996	1998	523
25°	1344	1388	1369	1421	1435	610
35°	626	635	512	619	633	401
45°	255	227	128	204	241	207
55°	136	101	26	91	124	123
65°	63	42	12	38	56	64
75°	21	14	5	12	19	23
85°	4	4	2	2	4	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°	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0
2.5°	2209.8	2234.3	2232.5	2253.5	2258.7	2253.5	2239.5	2253.5	2251.7
5°	2152.1	2180.1	2199.3	2234.3	2251.7	2248.2	2229.0	2232.5	2230.8
7.5°	2068.2	2103.1	2136.4	2188.8	2222.0	2220.3	2192.3	2187.1	2180.1
10°	1984.3	2017.5	2055.9	2110.1	2153.8	2160.8	2132.9	2125.9	2122.4
12.5°	1935.3	1961.5	1987.8	2035.0	2073.4	2087.4	2071.7	2073.4	2071.7
15°	1879.4	1905.6	1923.1	1958.0	1984.3	2003.5	1996.5	2007.0	1998.2
17.5°	1795.4	1826.9	1833.9	1860.1	1879.4	1891.6	1898.6	1909.1	1895.1
20°	1681.8	1706.3	1715.0	1725.5	1734.3	1750.0	1771.0	1781.5	1765.7
22.5°	1522.7	1569.9	1568.2	1562.9	1571.7	1576.9	1610.1	1627.6	1615.4
25°	1344.4	1393.4	1388.1	1367.1	1368.9	1379.4	1421.3	1444.1	1435.3
27.5°	1157.3	1202.8	1190.6	1150.3	1139.9	1155.6	1209.8	1236.0	1230.8
30°	977.3	1007.0	987.8	916.1	903.8	923.1	993.0	1019.2	1005.2
32.5°	783.2	805.9	797.2	709.8	688.8	708.0	790.2	814.7	798.9
35°	625.9	646.9	634.6	531.5	512.2	533.2	618.9	646.9	632.9
37.5°	501.7	517.5	501.7	391.6	374.1	395.1	477.3	514.0	496.5
40°	398.6	410.8	389.9	288.5	274.5	285.0	361.9	398.6	386.4
42.5°	314.7	323.4	300.7	211.5	195.8	209.8	272.7	305.9	299.0
45°	255.2	255.2	227.3	146.9	127.6	141.6	204.5	239.5	241.3
47.5°	218.5	213.3	178.3	97.9	73.4	92.7	162.6	199.3	204.5
50°	188.8	181.8	146.9	71.7	47.2	66.4	134.6	171.3	176.6
52.5°	162.6	157.3	122.4	55.9	33.2	50.7	113.6	148.6	153.8
55°	136.4	132.9	101.4	43.7	26.2	38.5	90.9	120.6	124.1
57.5°	111.9	106.6	82.2	36.7	21.0	31.5	75.2	99.7	103.1
60°	94.4	89.2	66.4	29.7	17.5	24.5	61.2	82.2	85.7
62.5°	78.7	73.4	54.2	24.5	14.0	21.0	49.0	66.4	69.9
65°	62.9	59.4	42.0	19.2	12.2	15.7	38.5	52.4	55.9
67.5°	50.7	47.2	33.2	15.7	10.5	12.2	29.7	42.0	45.5
70°	38.5	35.0	24.5	12.2	8.7	10.5	22.7	31.5	35.0
72.5°	28.0	26.2	19.2	10.5	7.0	8.7	15.7	22.7	26.2
75°	21.0	19.2	14.0	7.0	5.2	7.0	12.2	17.5	19.2
77.5°	14.0	14.0	10.5	5.2	5.2	5.2	8.7	12.2	12.2
80°	10.5	8.7	7.0	3.5	3.5	3.5	5.2	8.7	8.7
82.5°	7.0	5.2	5.2	3.5	3.5	3.5	3.5	5.2	5.2
85°	3.5	3.5	3.5	1.7	1.7	1.7	1.7	3.5	3.5
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)