

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: P857567

Luminaire Tested: **LD4C30D010 EU4309040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857567
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 EU4309040 4LBMDSWGPH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

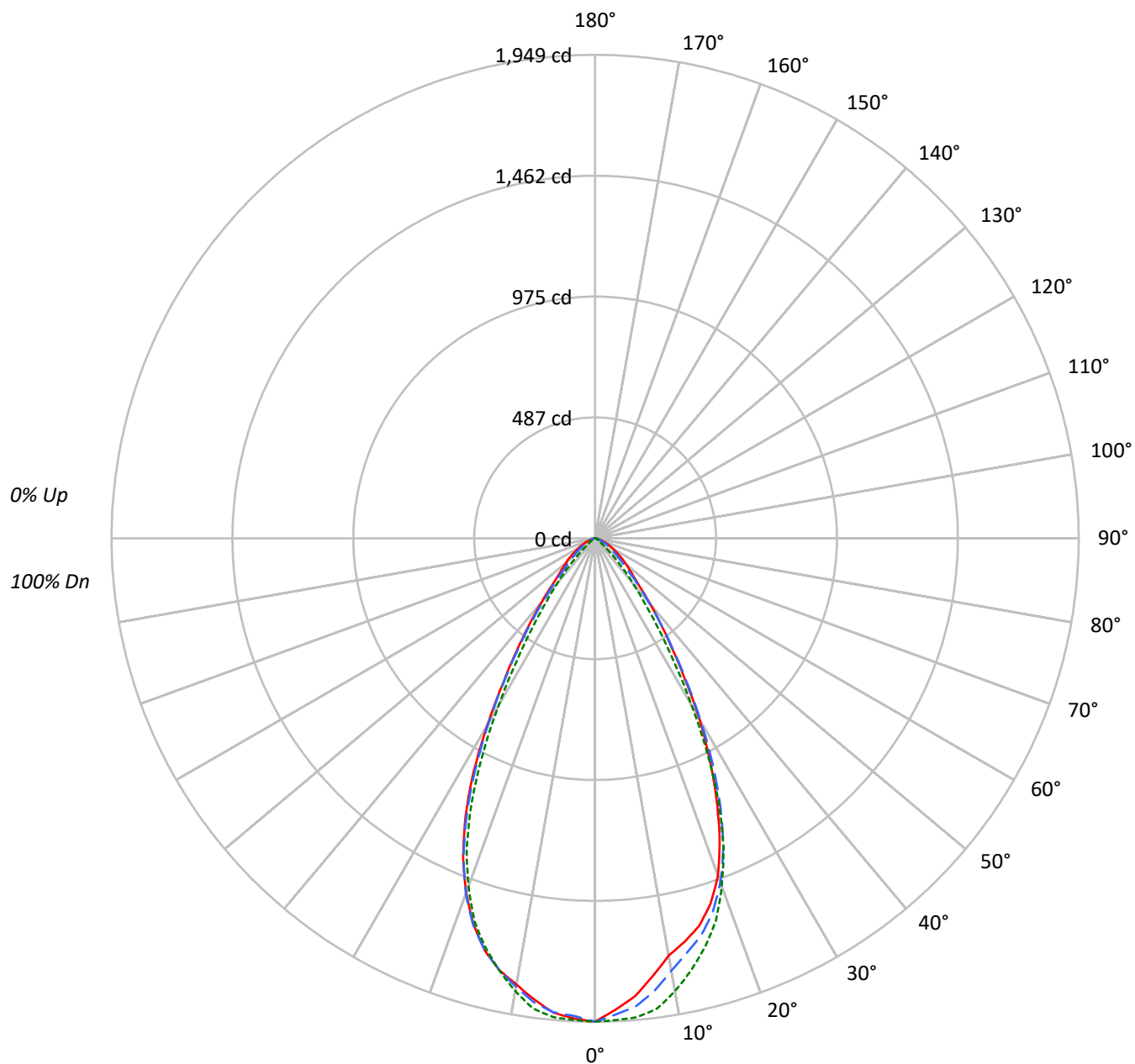
Lumens per Lamp: N/A
Luminaire Lumens: 1774.0 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	239405	239405	239405
5°	228443	239024	236792
10°	213058	231272	227891
15°	205751	217223	218762
20°	189256	195166	198696
25°	156863	159723	167463
30°	119332	110366	122751
35°	80792	66125	81692
40°	55024	37896	53340
45°	38171	19094	36086
50°	31058	7760	29051
55°	25146	4841	22875
60°	19976	3686	18109
65°	15756	3052	14012
70°	11890	2694	10812
75°	8592	2136	7880
80°	6367	2122	5306
85°	4229	2114	4229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	10.1
10°-20°	470.8	26.5
20°-30°	540.1	30.4
30°-40°	328.1	18.5
40°-50°	140.6	7.9
50°-60°	67.5	3.8
60°-70°	32.8	1.8
70°-80°	12.2	0.7
80°-90°	2.8	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°	1190.0	67.1
0°-40°	1518.2	85.6
0°-60°	1726.2	97.3
0°-90°	1774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1774.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1949	1949	1949	1949	1949	
5°	1852	1893	1938	1919	1920	172
15°	1618	1655	1708	1718	1720	450
25°	1157	1195	1178	1223	1235	525
35°	539	546	441	533	545	345
45°	220	196	110	176	208	178
55°	117	87	23	78	107	106
65°	54	36	10	33	48	55
75°	18	12	4	10	17	20
85°	3	3	2	2	3	4
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°	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7
2.5°	1902.1	1923.1	1921.6	1939.7	1944.2	1939.7	1927.6	1939.7	1938.2
5°	1852.4	1876.5	1893.0	1923.1	1938.2	1935.2	1918.6	1921.6	1920.1
7.5°	1780.2	1810.3	1838.9	1884.0	1912.6	1911.1	1887.0	1882.5	1876.5
10°	1707.9	1736.5	1769.6	1816.3	1853.9	1859.9	1835.9	1829.8	1826.8
12.5°	1665.8	1688.4	1711.0	1751.6	1784.7	1796.7	1783.2	1784.7	1783.2
15°	1617.7	1640.2	1655.3	1685.4	1707.9	1724.5	1718.5	1727.5	1720.0
17.5°	1545.4	1572.5	1578.5	1601.1	1617.7	1628.2	1634.2	1643.2	1631.2
20°	1447.6	1468.7	1476.2	1485.2	1492.8	1506.3	1524.4	1533.4	1519.8
22.5°	1310.7	1351.3	1349.8	1345.3	1352.8	1357.3	1385.9	1401.0	1390.4
25°	1157.2	1199.3	1194.8	1176.8	1178.3	1187.3	1223.4	1243.0	1235.4
27.5°	996.2	1035.3	1024.8	990.2	981.1	994.7	1041.3	1063.9	1059.4
30°	841.2	866.8	850.2	788.5	778.0	794.5	854.7	877.3	865.3
32.5°	674.1	693.7	686.2	610.9	592.9	609.4	680.2	701.2	687.7
35°	538.7	556.8	546.2	457.5	440.9	459.0	532.7	556.8	544.7
37.5°	431.9	445.4	431.9	337.1	322.0	340.1	410.8	442.4	427.4
40°	343.1	353.6	335.6	248.3	236.3	245.3	311.5	343.1	332.6
42.5°	270.9	278.4	258.8	182.1	168.5	180.6	234.7	263.3	257.3
45°	219.7	219.7	195.6	126.4	109.9	121.9	176.1	206.2	207.7
47.5°	188.1	183.6	153.5	84.3	63.2	79.8	139.9	171.5	176.1
50°	162.5	156.5	126.4	61.7	40.6	57.2	115.9	147.5	152.0
52.5°	139.9	135.4	105.3	48.2	28.6	43.6	97.8	127.9	132.4
55°	117.4	114.4	87.3	37.6	22.6	33.1	78.2	103.8	106.8
57.5°	96.3	91.8	70.7	31.6	18.1	27.1	64.7	85.8	88.8
60°	81.3	76.7	57.2	25.6	15.0	21.1	52.7	70.7	73.7
62.5°	67.7	63.2	46.6	21.1	12.0	18.1	42.1	57.2	60.2
65°	54.2	51.2	36.1	16.6	10.5	13.5	33.1	45.1	48.2
67.5°	43.6	40.6	28.6	13.5	9.0	10.5	25.6	36.1	39.1
70°	33.1	30.1	21.1	10.5	7.5	9.0	19.6	27.1	30.1
72.5°	24.1	22.6	16.6	9.0	6.0	7.5	13.5	19.6	22.6
75°	18.1	16.6	12.0	6.0	4.5	6.0	10.5	15.0	16.6
77.5°	12.0	12.0	9.0	4.5	4.5	4.5	7.5	10.5	10.5
80°	9.0	7.5	6.0	3.0	3.0	3.0	4.5	7.5	7.5
82.5°	6.0	4.5	4.5	3.0	3.0	3.0	3.0	4.5	4.5
85°	3.0	3.0	3.0	1.5	1.5	1.5	1.5	3.0	3.0
87.5°	1.5	1.5	1.5	1.5	1.5	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)