

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: P857546

Luminaire Tested: **LD4C30D010 EU4309035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857546
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 EU4309035 4LBMDSWGPH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

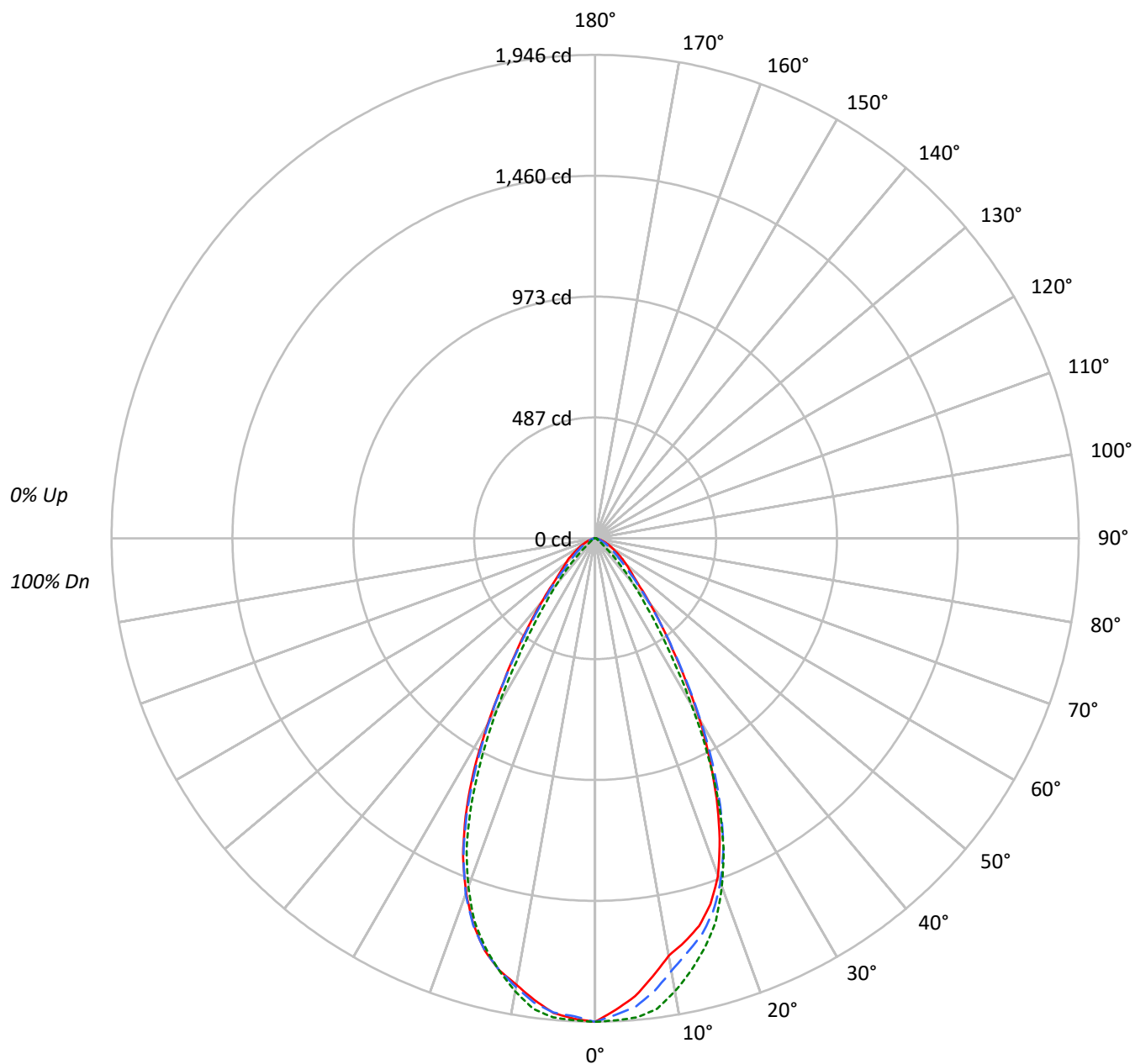
Lumens per Lamp: N/A
Luminaire Lumens: 1772.0 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	239134	239134	239134
5°	228184	238753	236533
10°	212821	231010	227641
15°	205509	216981	218508
20°	189047	194943	198473
25°	156687	159533	167273
30°	119190	110239	122609
35°	80702	66050	81602
40°	54960	37848	53276
45°	38136	19059	36034
50°	31020	7760	29013
55°	25103	4819	22854
60°	19951	3686	18109
65°	15727	3052	13982
70°	11890	2694	10812
75°	8544	2136	7832
80°	6367	2122	5306
85°	4229	2114	4229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	10.1
10°-20°	470.2	26.5
20°-30°	539.5	30.4
30°-40°	327.7	18.5
40°-50°	140.5	7.9
50°-60°	67.4	3.8
60°-70°	32.8	1.8
70°-80°	12.1	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°	1188.7	67.1
0°-40°	1516.4	85.6
0°-60°	1724.3	97.3
0°-90°	1772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1946	1946	1946	1946	1946	
5°	1850	1891	1936	1916	1918	172
15°	1616	1653	1706	1716	1718	450
25°	1156	1194	1177	1222	1234	524
35°	538	546	440	532	544	345
45°	220	195	110	176	207	178
55°	117	87	22	78	107	106
65°	54	36	10	33	48	55
75°	18	12	4	10	16	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°	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5
2.5°	1899.9	1921.0	1919.5	1937.5	1942.0	1937.5	1925.5	1937.5	1936.0
5°	1850.3	1874.4	1890.9	1921.0	1936.0	1933.0	1916.5	1919.5	1918.0
7.5°	1778.2	1808.2	1836.8	1881.9	1910.4	1908.9	1884.9	1880.4	1874.4
10°	1706.0	1734.6	1767.6	1814.2	1851.8	1857.8	1833.8	1827.8	1824.8
12.5°	1663.9	1686.5	1709.0	1749.6	1782.7	1794.7	1781.2	1782.7	1781.2
15°	1615.8	1638.4	1653.4	1683.5	1706.0	1722.6	1716.5	1725.6	1718.0
17.5°	1543.7	1570.7	1576.8	1599.3	1615.8	1626.4	1632.4	1641.4	1629.4
20°	1446.0	1467.0	1474.5	1483.6	1491.1	1504.6	1522.6	1531.7	1518.1
22.5°	1309.2	1349.8	1348.3	1343.8	1351.3	1355.8	1384.4	1399.4	1388.9
25°	1155.9	1198.0	1193.5	1175.4	1176.9	1185.9	1222.0	1241.6	1234.0
27.5°	995.1	1034.1	1023.6	989.0	980.0	993.5	1040.1	1062.7	1058.2
30°	840.2	865.8	849.3	787.6	777.1	793.6	853.8	876.3	864.3
32.5°	673.4	692.9	685.4	610.3	592.2	608.8	679.4	700.4	686.9
35°	538.1	556.1	545.6	456.9	440.4	458.4	532.1	556.1	544.1
37.5°	431.4	444.9	431.4	336.7	321.7	339.7	410.3	441.9	426.9
40°	342.7	353.2	335.2	248.0	236.0	245.0	311.1	342.7	332.2
42.5°	270.6	278.1	258.5	181.9	168.3	180.4	234.5	263.0	257.0
45°	219.5	219.5	195.4	126.3	109.7	121.8	175.9	205.9	207.4
47.5°	187.9	183.4	153.3	84.2	63.1	79.7	139.8	171.4	175.9
50°	162.3	156.3	126.3	61.6	40.6	57.1	115.7	147.3	151.8
52.5°	139.8	135.3	105.2	48.1	28.6	43.6	97.7	127.8	132.3
55°	117.2	114.2	87.2	37.6	22.5	33.1	78.2	103.7	106.7
57.5°	96.2	91.7	70.6	31.6	18.0	27.1	64.6	85.7	88.7
60°	81.2	76.7	57.1	25.6	15.0	21.0	52.6	70.6	73.7
62.5°	67.6	63.1	46.6	21.0	12.0	18.0	42.1	57.1	60.1
65°	54.1	51.1	36.1	16.5	10.5	13.5	33.1	45.1	48.1
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	21.0	10.5	7.5	9.0	19.5	27.1	30.1
72.5°	24.0	22.5	16.5	9.0	6.0	7.5	13.5	19.5	22.5
75°	18.0	16.5	12.0	6.0	4.5	6.0	10.5	15.0	16.5
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)