

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: P857111

Luminaire Tested: **LD4C20D010 EU4209027 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857111
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: LD4C20D010 EU4209027 4LBMDSWGPH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

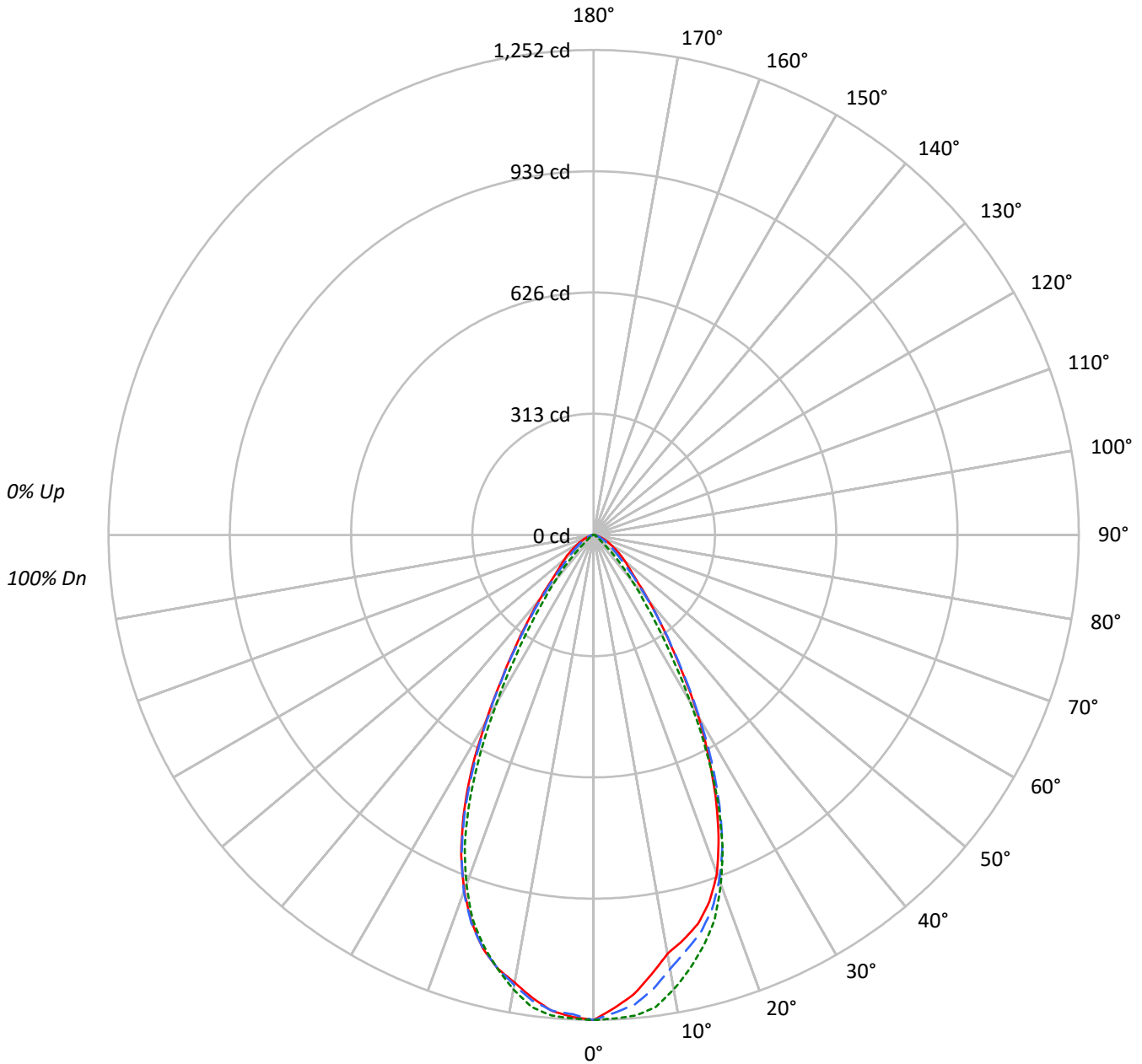
Lumens per Lamp: N/A
Luminaire Lumens: 1140.0 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): NR
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
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°	153849	153849	153849
5°	146803	153598	152168
10°	136924	148626	146442
15°	132211	139601	140580
20°	121626	125417	127692
25°	100798	102641	107616
30°	76689	70915	78874
35°	51922	42488	52507
40°	35362	24345	34272
45°	24532	12266	23177
50°	19954	4988	18673
55°	16150	3106	14715
60°	12826	2383	11647
65°	10116	1977	8983
70°	7651	1724	6933
75°	5506	1377	5031
80°	4103	1344	3396
85°	2678	1410	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	10.1
10°-20°	302.5	26.5
20°-30°	347.1	30.4
30°-40°	210.8	18.5
40°-50°	90.4	7.9
50°-60°	43.3	3.8
60°-70°	21.1	1.8
70°-80°	7.8	0.7
80°-90°	1.8	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°	764.7	67.1
0°-40°	975.6	85.6
0°-60°	1109.3	97.3
0°-90°	1140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1252	1252	1252	1252	1252	
5°	1190	1216	1246	1233	1234	111
15°	1040	1064	1098	1104	1105	289
25°	744	768	757	786	794	337
35°	346	351	283	342	350	222
45°	141	126	71	113	133	115
55°	75	56	14	50	69	68
65°	35	23	7	21	31	35
75°	12	8	3	7	11	13
85°	2	2	1	1	2	3
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°	1252.3	1252.3	1252.3	1252.3	1252.3	1252.3	1252.3	1252.3	1252.3
2.5°	1222.3	1235.8	1234.9	1246.5	1249.4	1246.5	1238.7	1246.5	1245.5
5°	1190.4	1205.9	1216.5	1235.8	1245.5	1243.6	1232.9	1234.9	1233.9
7.5°	1144.0	1163.3	1181.7	1210.7	1229.1	1228.1	1212.6	1209.7	1205.9
10°	1097.6	1115.9	1137.2	1167.2	1191.4	1195.2	1179.7	1175.9	1173.9
12.5°	1070.5	1085.0	1099.5	1125.6	1146.9	1154.6	1145.9	1146.9	1145.9
15°	1039.5	1054.0	1063.7	1083.0	1097.6	1108.2	1104.3	1110.1	1105.3
17.5°	993.1	1010.5	1014.4	1028.9	1039.5	1046.3	1050.2	1056.0	1048.2
20°	930.3	943.8	948.6	954.4	959.3	968.0	979.6	985.4	976.7
22.5°	842.3	868.4	867.4	864.5	869.3	872.2	890.6	900.3	893.5
25°	743.6	770.7	767.8	756.2	757.2	763.0	786.2	798.7	793.9
27.5°	640.2	665.3	658.5	636.3	630.5	639.2	669.2	683.7	680.8
30°	540.6	557.0	546.4	506.7	499.9	510.6	549.3	563.8	556.0
32.5°	433.2	445.8	441.0	392.6	381.0	391.6	437.1	450.6	441.9
35°	346.2	357.8	351.0	294.0	283.3	294.9	342.3	357.8	350.1
37.5°	277.5	286.2	277.5	216.6	206.9	218.5	264.0	284.3	274.6
40°	220.5	227.2	215.6	159.6	151.8	157.6	200.2	220.5	213.7
42.5°	174.1	178.9	166.3	117.0	108.3	116.0	150.9	169.2	165.4
45°	141.2	141.2	125.7	81.2	70.6	78.3	113.1	132.5	133.4
47.5°	120.9	118.0	98.6	54.2	40.6	51.3	89.9	110.2	113.1
50°	104.4	100.6	81.2	39.6	26.1	36.7	74.5	94.8	97.7
52.5°	89.9	87.0	67.7	30.9	18.4	28.0	62.9	82.2	85.1
55°	75.4	73.5	56.1	24.2	14.5	21.3	50.3	66.7	68.7
57.5°	61.9	59.0	45.4	20.3	11.6	17.4	41.6	55.1	57.1
60°	52.2	49.3	36.7	16.4	9.7	13.5	33.8	45.4	47.4
62.5°	43.5	40.6	30.0	13.5	7.7	11.6	27.1	36.7	38.7
65°	34.8	32.9	23.2	10.6	6.8	8.7	21.3	29.0	30.9
67.5°	28.0	26.1	18.4	8.7	5.8	6.8	16.4	23.2	25.1
70°	21.3	19.3	13.5	6.8	4.8	5.8	12.6	17.4	19.3
72.5°	15.5	14.5	10.6	5.8	3.9	4.8	8.7	12.6	14.5
75°	11.6	10.6	7.7	3.9	2.9	3.9	6.8	9.7	10.6
77.5°	7.7	7.7	5.8	2.9	2.9	2.9	4.8	6.8	6.8
80°	5.8	4.8	3.9	1.9	1.9	1.9	2.9	4.8	4.8
82.5°	3.9	2.9	2.9	1.9	1.9	1.9	1.9	2.9	2.9
85°	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)