

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: P857154

Luminaire Tested: **LD4C20D010 EU4209035 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857154
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 EU4209035 4LBMDDWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

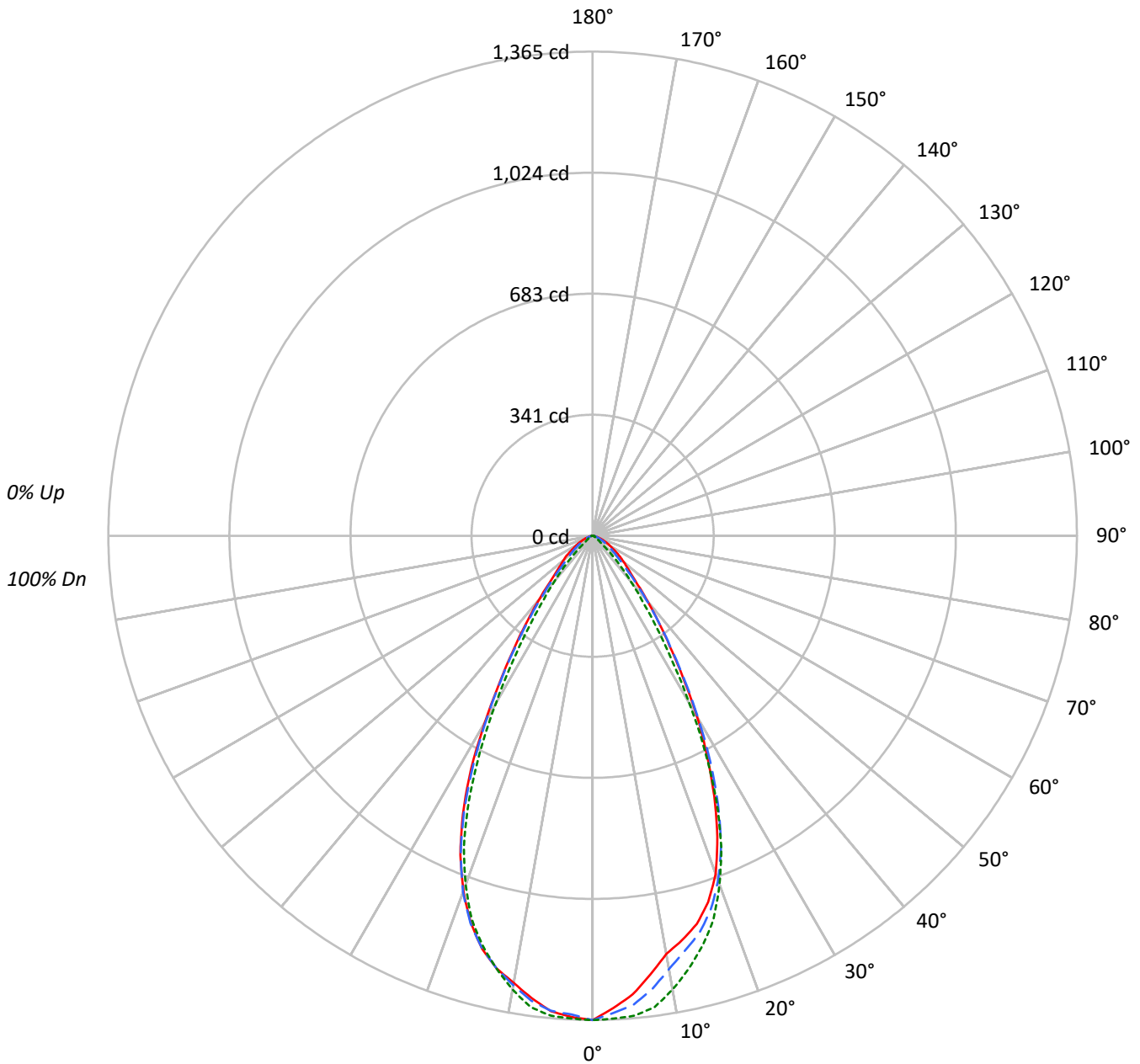
Lumens per Lamp: N/A
Luminaire Lumens: 1243.0 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	167744	167744	167744
5°	160061	167472	165918
10°	149287	162049	159678
15°	144167	152205	153286
20°	132607	136739	139223
25°	109907	111913	117335
30°	83612	77327	86009
35°	56616	46328	57246
40°	38554	26542	37367
45°	26739	13378	25279
50°	21769	5447	20355
55°	17606	3384	16043
60°	13981	2580	12703
65°	11046	2151	9796
70°	8333	1904	7579
75°	6028	1519	5506
80°	4457	1486	3750
85°	2960	1551	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	10.1
10°-20°	329.8	26.5
20°-30°	378.4	30.4
30°-40°	229.9	18.5
40°-50°	98.5	7.9
50°-60°	47.3	3.8
60°-70°	23.0	1.8
70°-80°	8.5	0.7
80°-90°	2.0	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°	833.8	67.1
0°-40°	1063.7	85.6
0°-60°	1209.5	97.3
0°-90°	1243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1365	1365	1365	1365	1365	
5°	1298	1326	1358	1344	1345	121
15°	1134	1160	1197	1204	1205	316
25°	811	837	826	857	866	368
35°	378	383	309	373	382	242
45°	154	137	77	123	146	125
55°	82	61	16	55	75	74
65°	38	25	7	23	34	39
75°	13	8	3	7	12	14
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°	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4
2.5°	1332.7	1347.5	1346.4	1359.1	1362.3	1359.1	1350.7	1359.1	1358.0
5°	1297.9	1314.8	1326.4	1347.5	1358.0	1355.9	1344.3	1346.4	1345.4
7.5°	1247.3	1268.4	1288.4	1320.1	1340.1	1339.1	1322.2	1319.0	1314.8
10°	1196.7	1216.8	1239.9	1272.6	1299.0	1303.2	1286.3	1282.1	1280.0
12.5°	1167.2	1183.0	1198.8	1227.3	1250.5	1258.9	1249.4	1250.5	1249.4
15°	1133.5	1149.3	1159.8	1180.9	1196.7	1208.3	1204.1	1210.4	1205.2
17.5°	1082.8	1101.8	1106.0	1121.9	1133.5	1140.8	1145.1	1151.4	1142.9
20°	1014.3	1029.1	1034.3	1040.7	1045.9	1055.4	1068.1	1074.4	1064.9
22.5°	918.4	946.8	945.8	942.6	947.9	951.0	971.1	981.6	974.2
25°	810.8	840.3	837.2	824.5	825.6	831.9	857.2	870.9	865.6
27.5°	698.0	725.4	718.0	693.8	687.5	696.9	729.6	745.4	742.3
30°	589.4	607.3	595.7	552.5	545.1	556.7	598.9	614.7	606.3
32.5°	472.4	486.1	480.8	428.1	415.4	427.0	476.6	491.3	481.9
35°	377.5	390.1	382.7	320.5	308.9	321.6	373.2	390.1	381.7
37.5°	302.6	312.1	302.6	236.2	225.6	238.3	287.8	310.0	299.4
40°	240.4	247.8	235.1	174.0	165.5	171.9	218.3	240.4	233.0
42.5°	189.8	195.1	181.4	127.6	118.1	126.5	164.5	184.5	180.3
45°	153.9	153.9	137.1	88.6	77.0	85.4	123.4	144.4	145.5
47.5°	131.8	128.6	107.5	59.0	44.3	55.9	98.1	120.2	123.4
50°	113.9	109.7	88.6	43.2	28.5	40.1	81.2	103.3	106.5
52.5°	98.1	94.9	73.8	33.7	20.0	30.6	68.5	89.6	92.8
55°	82.2	80.1	61.2	26.4	15.8	23.2	54.8	72.8	74.9
57.5°	67.5	64.3	49.6	22.1	12.7	19.0	45.3	60.1	62.2
60°	56.9	53.8	40.1	17.9	10.5	14.8	36.9	49.6	51.7
62.5°	47.4	44.3	32.7	14.8	8.4	12.7	29.5	40.1	42.2
65°	38.0	35.8	25.3	11.6	7.4	9.5	23.2	31.6	33.7
67.5°	30.6	28.5	20.0	9.5	6.3	7.4	17.9	25.3	27.4
70°	23.2	21.1	14.8	7.4	5.3	6.3	13.7	19.0	21.1
72.5°	16.9	15.8	11.6	6.3	4.2	5.3	9.5	13.7	15.8
75°	12.7	11.6	8.4	4.2	3.2	4.2	7.4	10.5	11.6
77.5°	8.4	8.4	6.3	3.2	3.2	3.2	5.3	7.4	7.4
80°	6.3	5.3	4.2	2.1	2.1	2.1	3.2	5.3	5.3
82.5°	4.2	3.2	3.2	2.1	2.1	2.1	2.1	3.2	3.2
85°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	2.1	2.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)