

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: P857132

Luminaire Tested: **LD4C20D010 EU4209030 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857132
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 EU4209030 4LBMDDWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

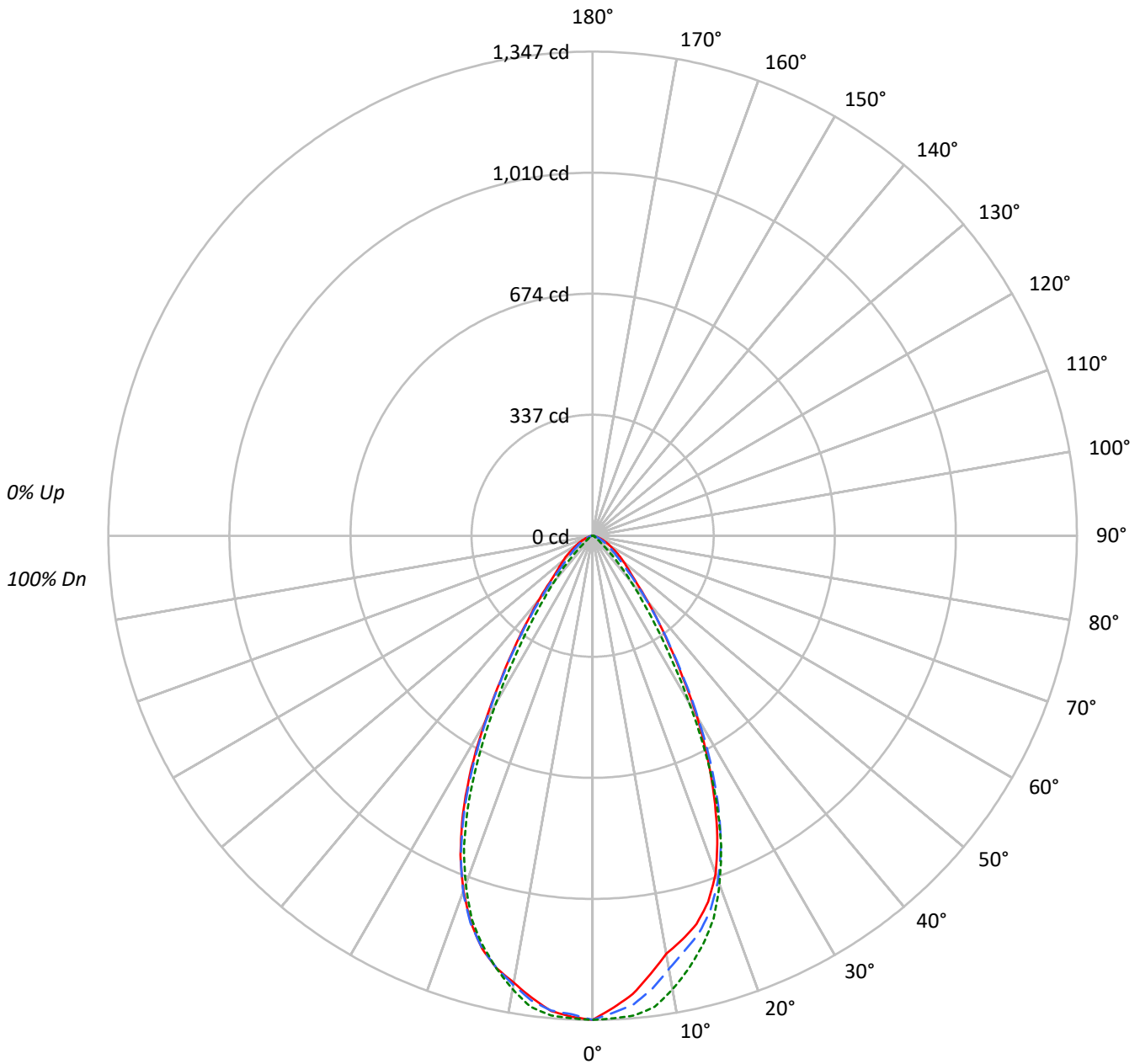
Lumens per Lamp: N/A
Luminaire Lumens: 1226.0 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	165447	165447	165447
5°	157878	165191	163649
10°	147253	159828	157495
15°	142195	150132	151188
20°	130790	134869	137327
25°	108402	110381	115736
30°	82463	76278	84832
35°	55836	45698	56466
40°	38025	26189	36854
45°	26374	13187	24932
50°	21463	5371	20068
55°	17371	3341	15807
60°	13809	2555	12531
65°	10872	2122	9680
70°	8226	1868	7471
75°	5933	1471	5411
80°	4386	1486	3679
85°	2960	1410	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	10.1
10°-20°	325.3	26.5
20°-30°	373.3	30.4
30°-40°	226.8	18.5
40°-50°	97.2	7.9
50°-60°	46.6	3.8
60°-70°	22.7	1.8
70°-80°	8.4	0.7
80°-90°	1.9	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°	822.4	67.1
0°-40°	1049.2	85.6
0°-60°	1193.0	97.3
0°-90°	1226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1347	1347	1347	1347	1347	
5°	1280	1308	1340	1326	1327	119
15°	1118	1144	1180	1188	1189	311
25°	800	826	814	846	854	363
35°	372	378	305	368	376	239
45°	152	135	76	122	144	123
55°	81	60	16	54	74	73
65°	37	25	7	23	33	38
75°	12	8	3	7	11	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°	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1314.5	1329.1	1328.0	1340.5	1343.6	1340.5	1332.2	1340.5	1339.5
5°	1280.2	1296.8	1308.3	1329.1	1339.5	1337.4	1325.9	1328.0	1327.0
7.5°	1230.3	1251.1	1270.8	1302.0	1321.8	1320.7	1304.1	1301.0	1296.8
10°	1180.4	1200.1	1223.0	1255.2	1281.2	1285.4	1268.7	1264.6	1262.5
12.5°	1151.2	1166.8	1182.4	1210.5	1233.4	1241.7	1232.3	1233.4	1232.3
15°	1118.0	1133.6	1144.0	1164.8	1180.4	1191.8	1187.6	1193.9	1188.7
17.5°	1068.0	1086.8	1090.9	1106.5	1118.0	1125.2	1129.4	1135.6	1127.3
20°	1000.4	1015.0	1020.2	1026.4	1031.6	1041.0	1053.5	1059.7	1050.4
22.5°	905.8	933.9	932.8	929.7	934.9	938.0	957.8	968.2	960.9
25°	799.7	828.8	825.7	813.2	814.3	820.5	845.5	859.0	853.8
27.5°	688.5	715.5	708.2	684.3	678.1	687.4	719.6	735.2	732.1
30°	581.3	599.0	587.6	544.9	537.7	549.1	590.7	606.3	598.0
32.5°	465.9	479.4	474.2	422.2	409.7	421.2	470.1	484.6	475.3
35°	372.3	384.8	377.5	316.1	304.7	317.2	368.1	384.8	376.5
37.5°	298.5	307.8	298.5	233.0	222.6	235.0	283.9	305.7	295.3
40°	237.1	244.4	231.9	171.6	163.3	169.5	215.3	237.1	229.8
42.5°	187.2	192.4	178.9	125.8	116.5	124.8	162.2	182.0	177.8
45°	151.8	151.8	135.2	87.4	75.9	84.2	121.7	142.5	143.5
47.5°	130.0	126.9	106.1	58.2	43.7	55.1	96.7	118.6	121.7
50°	112.3	108.2	87.4	42.6	28.1	39.5	80.1	101.9	105.0
52.5°	96.7	93.6	72.8	33.3	19.8	30.2	67.6	88.4	91.5
55°	81.1	79.0	60.3	26.0	15.6	22.9	54.1	71.8	73.8
57.5°	66.6	63.4	48.9	21.8	12.5	18.7	44.7	59.3	61.4
60°	56.2	53.0	39.5	17.7	10.4	14.6	36.4	48.9	51.0
62.5°	46.8	43.7	32.2	14.6	8.3	12.5	29.1	39.5	41.6
65°	37.4	35.4	25.0	11.4	7.3	9.4	22.9	31.2	33.3
67.5°	30.2	28.1	19.8	9.4	6.2	7.3	17.7	25.0	27.0
70°	22.9	20.8	14.6	7.3	5.2	6.2	13.5	18.7	20.8
72.5°	16.6	15.6	11.4	6.2	4.2	5.2	9.4	13.5	15.6
75°	12.5	11.4	8.3	4.2	3.1	4.2	7.3	10.4	11.4
77.5°	8.3	8.3	6.2	3.1	3.1	3.1	5.2	7.3	7.3
80°	6.2	5.2	4.2	2.1	2.1	2.1	3.1	5.2	5.2
82.5°	4.2	3.1	3.1	2.1	2.1	2.1	2.1	3.1	3.1
85°	2.1	2.1	2.1	1.0	1.0	1.0	1.0	2.1	2.1
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)