

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: P857198

Luminaire Tested: **LD4C20D010 EU4209050 4LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P857198  
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 EU4209050 4LBMDDWLI  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

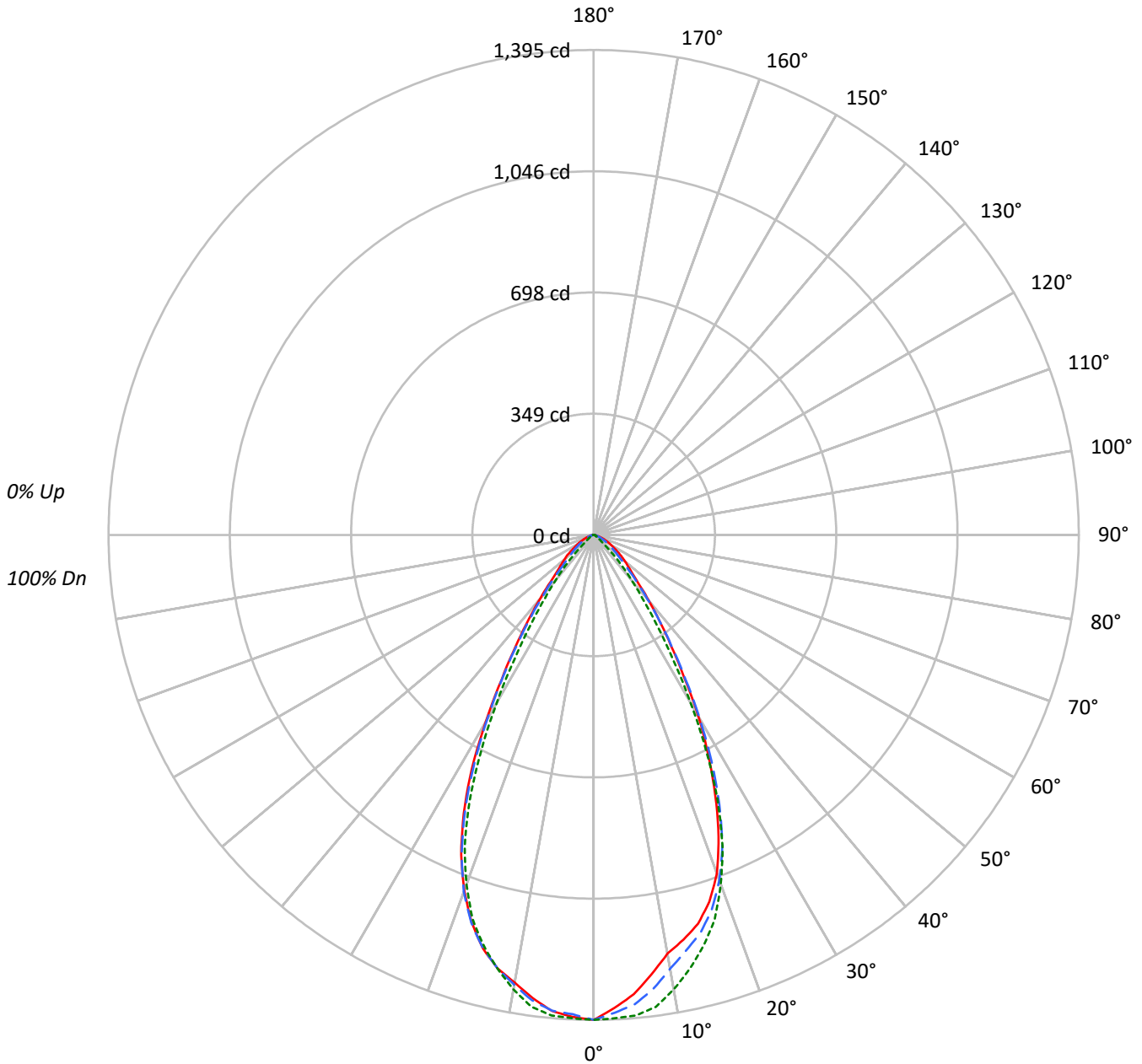
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1270.0 lumens  
Efficiency: N/A  
Efficacy: 58.3 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<sub>in</sub>): 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				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	171393	171393	171393
5°	163538	171110	169519
10°	152530	165566	163146
15°	147296	155512	156606
20°	135484	139720	142256
25°	112293	114340	119884
30°	85427	79015	87867
35°	57846	47333	58491
40°	39388	27119	38185
45°	27329	13656	25835
50°	22228	5562	20795
55°	17992	3470	16385
60°	14300	2654	12973
65°	11279	2180	10029
70°	8513	1940	7723
75°	6123	1519	5649
80°	4599	1556	3820
85°	3101	1551	3101



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.3	10.1
10°-20°	337.0	26.5
20°-30°	386.7	30.4
30°-40°	234.9	18.5
40°-50°	100.7	7.9
50°-60°	48.3	3.8
60°-70°	23.5	1.8
70°-80°	8.7	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°	851.9	67.1
0°-40°	1086.8	85.6
0°-60°	1235.8	97.3
0°-90°	1270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1395	1395	1395	1395	1395	
5°	1326	1355	1388	1374	1375	123
15°	1158	1185	1223	1230	1231	322
25°	828	855	844	876	884	376
35°	386	391	316	381	390	247
45°	157	140	79	126	149	128
55°	84	62	16	56	76	76
65°	39	26	8	24	34	39
75°	13	9	3	8	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°	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1
2.5°	1361.7	1376.8	1375.7	1388.6	1391.8	1388.6	1380.0	1388.6	1387.5
5°	1326.1	1343.4	1355.2	1376.8	1387.5	1385.4	1373.5	1375.7	1374.6
7.5°	1274.4	1296.0	1316.4	1348.8	1369.2	1368.1	1350.9	1347.7	1343.4
10°	1222.7	1243.2	1266.9	1300.3	1327.2	1331.5	1314.3	1310.0	1307.8
12.5°	1192.5	1208.7	1224.9	1254.0	1277.7	1286.3	1276.6	1277.7	1276.6
15°	1158.1	1174.2	1185.0	1206.6	1222.7	1234.6	1230.3	1236.7	1231.3
17.5°	1106.4	1125.8	1130.1	1146.2	1158.1	1165.6	1169.9	1176.4	1167.8
20°	1036.3	1051.4	1056.8	1063.3	1068.7	1078.4	1091.3	1097.7	1088.1
22.5°	938.3	967.4	966.3	963.1	968.5	971.7	992.2	1002.9	995.4
25°	828.4	858.6	855.4	842.4	843.5	850.0	875.8	889.8	884.4
27.5°	713.2	741.2	733.6	708.8	702.4	712.1	745.5	761.6	758.4
30°	602.2	620.5	608.7	564.5	557.0	568.8	611.9	628.1	619.4
32.5°	482.6	496.6	491.2	437.4	424.4	436.3	486.9	502.0	492.3
35°	385.7	398.6	391.1	327.5	315.6	328.6	381.4	398.6	390.0
37.5°	309.2	318.9	309.2	241.3	230.5	243.5	294.1	316.7	305.9
40°	245.6	253.2	240.2	177.8	169.1	175.6	223.0	245.6	238.1
42.5°	193.9	199.3	185.3	130.4	120.7	129.3	168.1	188.5	184.2
45°	157.3	157.3	140.0	90.5	78.6	87.3	126.0	147.6	148.7
47.5°	134.7	131.4	109.9	60.3	45.2	57.1	100.2	122.8	126.0
50°	116.3	112.0	90.5	44.2	29.1	40.9	83.0	105.6	108.8
52.5°	100.2	97.0	75.4	34.5	20.5	31.2	70.0	91.6	94.8
55°	84.0	81.9	62.5	26.9	16.2	23.7	56.0	74.3	76.5
57.5°	68.9	65.7	50.6	22.6	12.9	19.4	46.3	61.4	63.6
60°	58.2	54.9	40.9	18.3	10.8	15.1	37.7	50.6	52.8
62.5°	48.5	45.2	33.4	15.1	8.6	12.9	30.2	40.9	43.1
65°	38.8	36.6	25.9	11.9	7.5	9.7	23.7	32.3	34.5
67.5°	31.2	29.1	20.5	9.7	6.5	7.5	18.3	25.9	28.0
70°	23.7	21.5	15.1	7.5	5.4	6.5	14.0	19.4	21.5
72.5°	17.2	16.2	11.9	6.5	4.3	5.4	9.7	14.0	16.2
75°	12.9	11.9	8.6	4.3	3.2	4.3	7.5	10.8	11.9
77.5°	8.6	8.6	6.5	3.2	3.2	3.2	5.4	7.5	7.5
80°	6.5	5.4	4.3	2.2	2.2	2.2	3.2	5.4	5.4
82.5°	4.3	3.2	3.2	2.2	2.2	2.2	2.2	3.2	3.2
85°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	2.2	2.2
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)