

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: P857133

Luminaire Tested: **LD4C20D010 EU4209030 4LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P857133  
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 4LBMDSWGPH  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

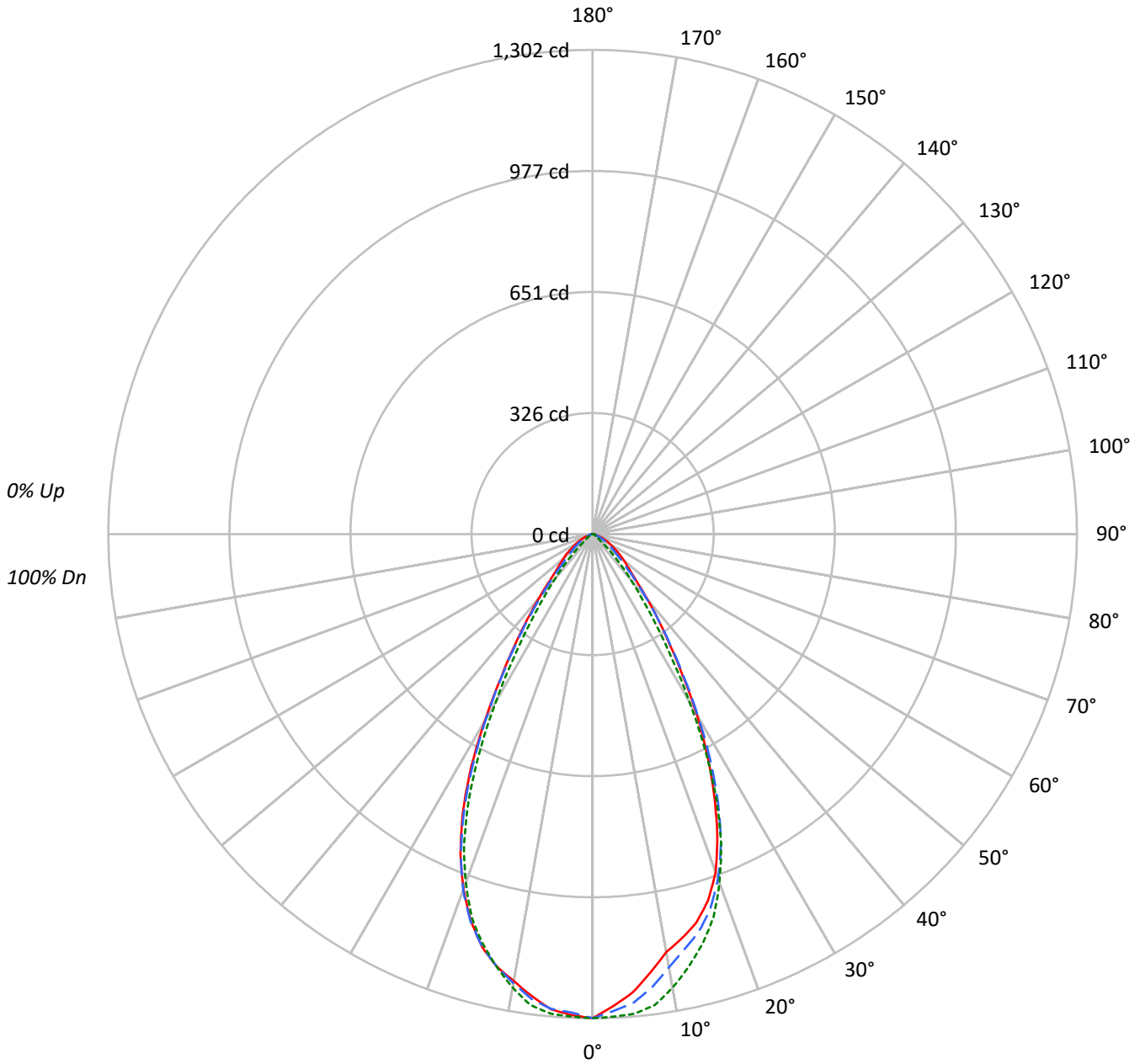
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1185.0 lumens  
Efficiency: N/A  
Efficacy: 54.4 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				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°	159918	159918	159918
5°	152600	159666	158174
10°	142326	154489	152231
15°	137439	145108	146125
20°	126424	130359	132725
25°	104783	106694	111873
30°	79711	73724	81994
35°	53977	44168	54576
40°	36758	25307	35619
45°	25505	12753	24098
50°	20756	5180	19399
55°	16792	3234	15293
60°	13342	2482	12113
65°	10523	2035	9360
70°	7938	1796	7220
75°	5743	1424	5269
80°	4245	1415	3537
85°	2819	1410	2819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.7	10.1
10°-20°	314.5	26.5
20°-30°	360.8	30.4
30°-40°	219.2	18.5
40°-50°	93.9	7.9
50°-60°	45.1	3.8
60°-70°	21.9	1.8
70°-80°	8.1	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°	794.9	67.1
0°-40°	1014.1	85.6
0°-60°	1153.1	97.3
0°-90°	1185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1302	1302	1302	1302	1302	
5°	1237	1264	1295	1282	1283	115
15°	1081	1106	1141	1148	1149	301
25°	773	798	787	817	825	351
35°	360	365	294	356	364	231
45°	147	131	73	118	139	119
55°	78	58	15	52	71	71
65°	36	24	7	22	32	37
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°	1301.7	1301.7	1301.7	1301.7	1301.7	1301.7	1301.7	1301.7	1301.7
2.5°	1270.5	1284.6	1283.6	1295.7	1298.7	1295.7	1287.6	1295.7	1294.7
5°	1237.4	1253.5	1264.5	1284.6	1294.7	1292.7	1281.6	1283.6	1282.6
7.5°	1189.1	1209.2	1228.3	1258.5	1277.6	1276.6	1260.5	1257.5	1253.5
10°	1140.9	1160.0	1182.1	1213.2	1238.4	1242.4	1226.3	1222.3	1220.3
12.5°	1112.7	1127.8	1142.9	1170.0	1192.1	1200.2	1191.1	1192.1	1191.1
15°	1080.6	1095.6	1105.7	1125.8	1140.9	1151.9	1147.9	1153.9	1148.9
17.5°	1032.3	1050.4	1054.4	1069.5	1080.6	1087.6	1091.6	1097.7	1089.6
20°	967.0	981.1	986.1	992.1	997.1	1006.2	1018.2	1024.3	1015.2
22.5°	875.5	902.6	901.6	898.6	903.7	906.7	925.8	935.8	928.8
25°	773.0	801.1	798.1	786.0	787.1	793.1	817.2	830.3	825.3
27.5°	665.4	691.6	684.5	661.4	655.4	664.4	695.6	710.7	707.6
30°	561.9	579.0	567.9	526.7	519.7	530.7	570.9	586.0	578.0
32.5°	450.3	463.4	458.4	408.1	396.0	407.1	454.3	468.4	459.4
35°	359.9	371.9	364.9	305.6	294.5	306.6	355.8	371.9	363.9
37.5°	288.5	297.5	288.5	225.2	215.1	227.2	274.4	295.5	285.5
40°	229.2	236.2	224.2	165.9	157.8	163.8	208.1	229.2	222.1
42.5°	180.9	186.0	172.9	121.6	112.6	120.6	156.8	175.9	171.9
45°	146.8	146.8	130.7	84.4	73.4	81.4	117.6	137.7	138.7
47.5°	125.6	122.6	102.5	56.3	42.2	53.3	93.5	114.6	117.6
50°	108.6	104.5	84.4	41.2	27.1	38.2	77.4	98.5	101.5
52.5°	93.5	90.5	70.4	32.2	19.1	29.2	65.3	85.4	88.5
55°	78.4	76.4	58.3	25.1	15.1	22.1	52.3	69.4	71.4
57.5°	64.3	61.3	47.2	21.1	12.1	18.1	43.2	57.3	59.3
60°	54.3	51.3	38.2	17.1	10.1	14.1	35.2	47.2	49.3
62.5°	45.2	42.2	31.2	14.1	8.0	12.1	28.1	38.2	40.2
65°	36.2	34.2	24.1	11.1	7.0	9.0	22.1	30.2	32.2
67.5°	29.2	27.1	19.1	9.0	6.0	7.0	17.1	24.1	26.1
70°	22.1	20.1	14.1	7.0	5.0	6.0	13.1	18.1	20.1
72.5°	16.1	15.1	11.1	6.0	4.0	5.0	9.0	13.1	15.1
75°	12.1	11.1	8.0	4.0	3.0	4.0	7.0	10.1	11.1
77.5°	8.0	8.0	6.0	3.0	3.0	3.0	5.0	7.0	7.0
80°	6.0	5.0	4.0	2.0	2.0	2.0	3.0	5.0	5.0
82.5°	4.0	3.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0
85°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	2.0
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)