

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: P857110

Luminaire Tested: **LD4C20D010 EU4209027 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857110
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 4LBMDDWLI
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

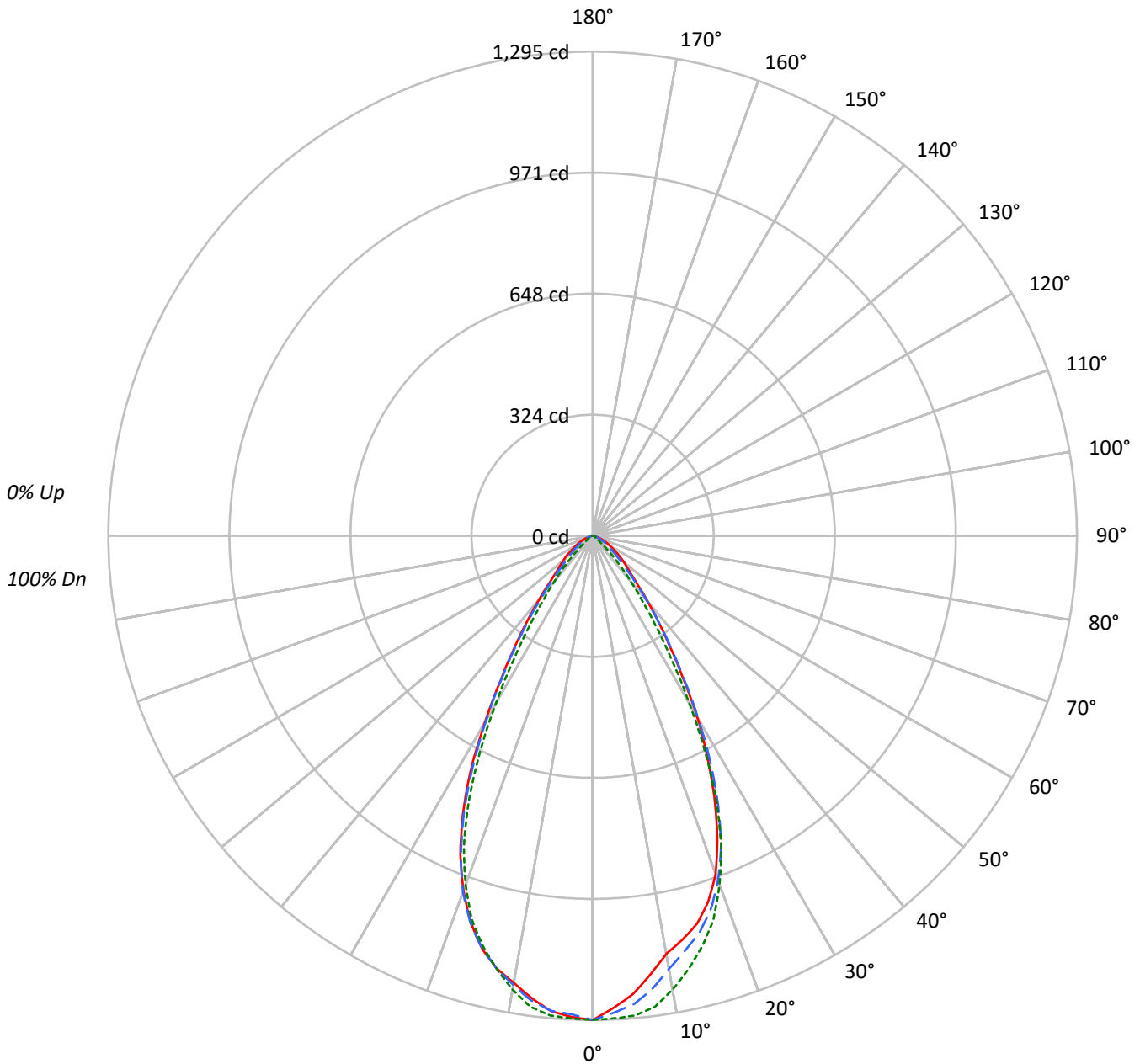
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1179.0 lumens
Efficiency: N/A
Efficacy: 54.1 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				
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°	159108	159108	159108
5°	151823	158852	157372
10°	141602	153703	151457
15°	136739	144370	145388
20°	125783	129705	132058
25°	104254	106152	111303
30°	79299	73341	81583
35°	53692	43943	54291
40°	36565	25179	35443
45°	25366	12683	23976
50°	20642	5160	19304
55°	16707	3213	15207
60°	13268	2457	12040
65°	10465	2035	9302
70°	7902	1796	7184
75°	5696	1424	5221
80°	4245	1415	3537
85°	2819	1410	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	10.1
10°-20°	312.9	26.5
20°-30°	359.0	30.4
30°-40°	218.0	18.5
40°-50°	93.4	7.9
50°-60°	44.8	3.8
60°-70°	21.8	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°	790.9	67.1
0°-40°	1009.0	85.6
0°-60°	1147.2	97.3
0°-90°	1179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1295	1295	1295	1295	1295	
5°	1231	1258	1288	1275	1276	114
15°	1075	1100	1135	1142	1143	299
25°	769	794	783	813	821	349
35°	358	363	293	354	362	229
45°	146	130	73	117	138	119
55°	78	58	15	52	71	70
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°	1295.1	1295.1	1295.1	1295.1	1295.1	1295.1	1295.1	1295.1	1295.1
2.5°	1264.1	1278.1	1277.1	1289.1	1292.1	1289.1	1281.1	1289.1	1288.1
5°	1231.1	1247.1	1258.1	1278.1	1288.1	1286.1	1275.1	1277.1	1276.1
7.5°	1183.1	1203.1	1222.1	1252.1	1271.1	1270.1	1254.1	1251.1	1247.1
10°	1135.1	1154.1	1176.1	1207.1	1232.1	1236.1	1220.1	1216.1	1214.1
12.5°	1107.1	1122.1	1137.1	1164.1	1186.1	1194.1	1185.1	1186.1	1185.1
15°	1075.1	1090.1	1100.1	1120.1	1135.1	1146.1	1142.1	1148.1	1143.1
17.5°	1027.1	1045.1	1049.1	1064.1	1075.1	1082.1	1086.1	1092.1	1084.1
20°	962.1	976.1	981.1	987.1	992.1	1001.1	1013.1	1019.1	1010.1
22.5°	871.1	898.1	897.1	894.1	899.1	902.1	921.1	931.1	924.1
25°	769.1	797.1	794.1	782.1	783.1	789.1	813.1	826.1	821.1
27.5°	662.1	688.1	681.1	658.1	652.1	661.1	692.1	707.1	704.1
30°	559.0	576.1	565.0	524.0	517.0	528.0	568.1	583.1	575.1
32.5°	448.0	461.0	456.0	406.0	394.0	405.0	452.0	466.0	457.0
35°	358.0	370.0	363.0	304.0	293.0	305.0	354.0	370.0	362.0
37.5°	287.0	296.0	287.0	224.0	214.0	226.0	273.0	294.0	284.0
40°	228.0	235.0	223.0	165.0	157.0	163.0	207.0	228.0	221.0
42.5°	180.0	185.0	172.0	121.0	112.0	120.0	156.0	175.0	171.0
45°	146.0	146.0	130.0	84.0	73.0	81.0	117.0	137.0	138.0
47.5°	125.0	122.0	102.0	56.0	42.0	53.0	93.0	114.0	117.0
50°	108.0	104.0	84.0	41.0	27.0	38.0	77.0	98.0	101.0
52.5°	93.0	90.0	70.0	32.0	19.0	29.0	65.0	85.0	88.0
55°	78.0	76.0	58.0	25.0	15.0	22.0	52.0	69.0	71.0
57.5°	64.0	61.0	47.0	21.0	12.0	18.0	43.0	57.0	59.0
60°	54.0	51.0	38.0	17.0	10.0	14.0	35.0	47.0	49.0
62.5°	45.0	42.0	31.0	14.0	8.0	12.0	28.0	38.0	40.0
65°	36.0	34.0	24.0	11.0	7.0	9.0	22.0	30.0	32.0
67.5°	29.0	27.0	19.0	9.0	6.0	7.0	17.0	24.0	26.0
70°	22.0	20.0	14.0	7.0	5.0	6.0	13.0	18.0	20.0
72.5°	16.0	15.0	11.0	6.0	4.0	5.0	9.0	13.0	15.0
75°	12.0	11.0	8.0	4.0	3.0	4.0	7.0	10.0	11.0
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)