

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: P857177

Luminaire Tested: **LD4C20D010 EU4209040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857177
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 EU4209040 4LBMDSWGPH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

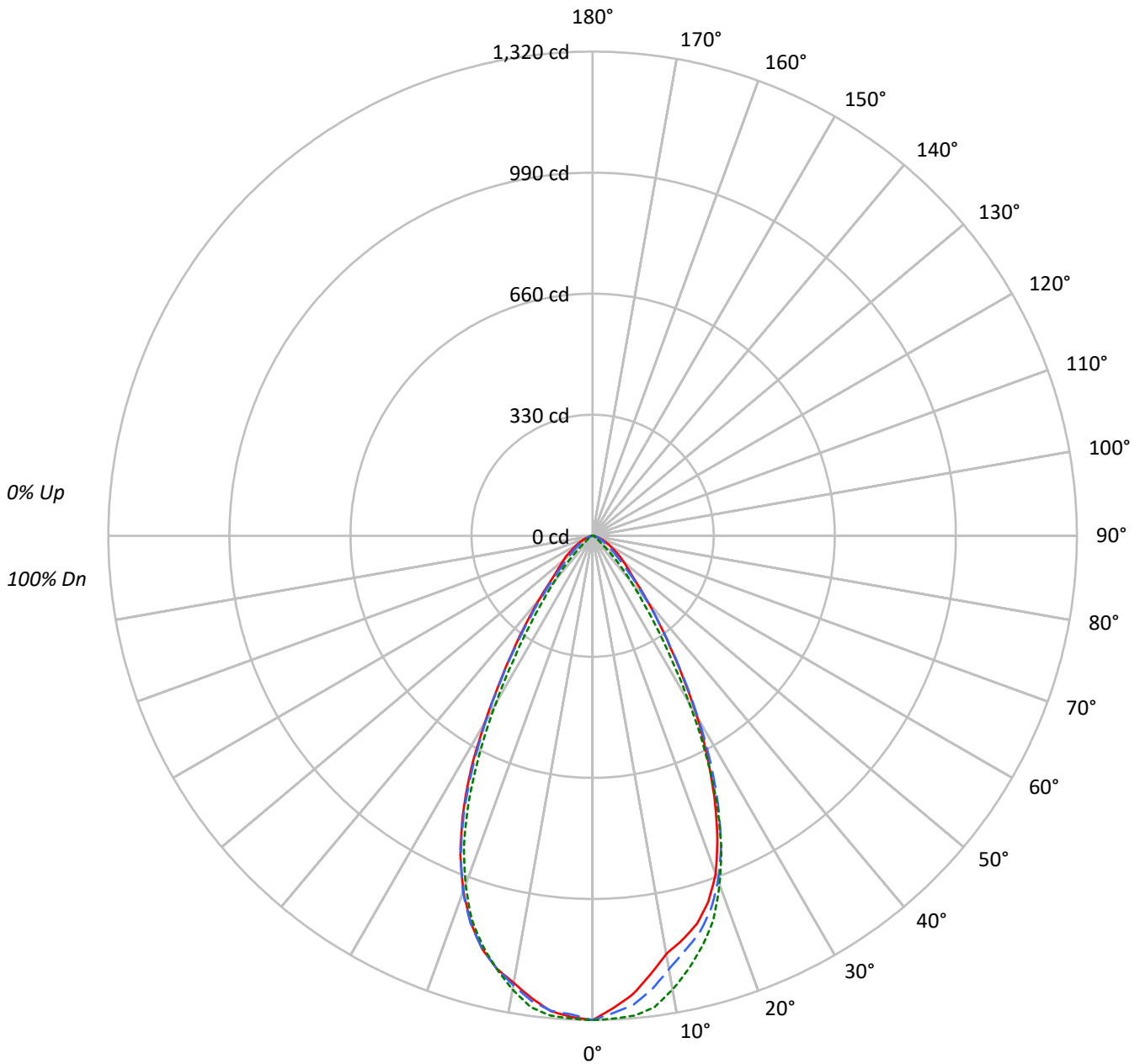
Lumens per Lamp: N/A
Luminaire Lumens: 1202.0 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	162216	162216	162216
5°	154782	161947	160443
10°	144359	156697	154414
15°	139410	147181	148224
20°	128241	132228	134634
25°	106288	108213	113472
30°	80860	74774	83172
35°	54741	44798	55356
40°	37287	25676	36132
45°	25870	12926	24445
50°	21043	5256	19686
55°	17028	3277	15507
60°	13538	2506	12285
65°	10669	2064	9477
70°	8046	1832	7328
75°	5791	1471	5316
80°	4316	1415	3608
85°	2819	1410	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	10.1
10°-20°	319.0	26.5
20°-30°	366.0	30.4
30°-40°	222.3	18.5
40°-50°	95.3	7.9
50°-60°	45.7	3.8
60°-70°	22.2	1.8
70°-80°	8.3	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°	806.3	67.1
0°-40°	1028.6	85.6
0°-60°	1169.6	97.3
0°-90°	1202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1320	1320	1320	1320	1320	
5°	1255	1283	1313	1300	1301	117
15°	1096	1122	1157	1164	1165	305
25°	784	810	798	829	837	356
35°	365	370	299	361	369	234
45°	149	132	74	119	141	121
55°	80	59	15	53	72	72
65°	37	24	7	22	33	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°	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4
2.5°	1288.8	1303.0	1302.0	1314.3	1317.3	1314.3	1306.1	1314.3	1313.2
5°	1255.1	1271.4	1282.7	1303.0	1313.2	1311.2	1300.0	1302.0	1301.0
7.5°	1206.2	1226.6	1245.9	1276.5	1295.9	1294.9	1278.6	1275.5	1271.4
10°	1157.2	1176.6	1199.0	1230.7	1256.1	1260.2	1243.9	1239.8	1237.8
12.5°	1128.7	1144.0	1159.3	1186.8	1209.2	1217.4	1208.2	1209.2	1208.2
15°	1096.1	1111.4	1121.6	1141.9	1157.2	1168.5	1164.4	1170.5	1165.4
17.5°	1047.1	1065.5	1069.6	1084.9	1096.1	1103.2	1107.3	1113.4	1105.2
20°	980.9	995.1	1000.2	1006.3	1011.4	1020.6	1032.9	1039.0	1029.8
22.5°	888.1	915.6	914.6	911.5	916.6	919.7	939.0	949.2	942.1
25°	784.1	812.6	809.6	797.3	798.3	804.5	828.9	842.2	837.1
27.5°	675.0	701.5	694.3	670.9	664.8	674.0	705.6	720.9	717.8
30°	570.0	587.3	576.1	534.3	527.1	538.3	579.1	594.4	586.3
32.5°	456.8	470.0	464.9	414.0	401.7	412.9	460.9	475.1	466.0
35°	365.0	377.3	370.1	310.0	298.7	311.0	360.9	377.3	369.1
37.5°	292.6	301.8	292.6	228.4	218.2	230.4	278.4	299.8	289.6
40°	232.5	239.6	227.4	168.2	160.1	166.2	211.1	232.5	225.3
42.5°	183.5	188.6	175.4	123.4	114.2	122.4	159.1	178.4	174.4
45°	148.9	148.9	132.5	85.6	74.4	82.6	119.3	139.7	140.7
47.5°	127.4	124.4	104.0	57.1	42.8	54.0	94.8	116.2	119.3
50°	110.1	106.0	85.6	41.8	27.5	38.7	78.5	99.9	103.0
52.5°	94.8	91.8	71.4	32.6	19.4	29.6	66.3	86.7	89.7
55°	79.5	77.5	59.1	25.5	15.3	22.4	53.0	70.4	72.4
57.5°	65.3	62.2	47.9	21.4	12.2	18.4	43.8	58.1	60.2
60°	55.1	52.0	38.7	17.3	10.2	14.3	35.7	47.9	50.0
62.5°	45.9	42.8	31.6	14.3	8.2	12.2	28.5	38.7	40.8
65°	36.7	34.7	24.5	11.2	7.1	9.2	22.4	30.6	32.6
67.5°	29.6	27.5	19.4	9.2	6.1	7.1	17.3	24.5	26.5
70°	22.4	20.4	14.3	7.1	5.1	6.1	13.3	18.4	20.4
72.5°	16.3	15.3	11.2	6.1	4.1	5.1	9.2	13.3	15.3
75°	12.2	11.2	8.2	4.1	3.1	4.1	7.1	10.2	11.2
77.5°	8.2	8.2	6.1	3.1	3.1	3.1	5.1	7.1	7.1
80°	6.1	5.1	4.1	2.0	2.0	2.0	3.1	5.1	5.1
82.5°	4.1	3.1	3.1	2.0	2.0	2.0	2.0	3.1	3.1
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)