

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: P857155

Luminaire Tested: **LD4C20D010 EU4209035 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857155
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 EU4209035 4LBMDSWGPH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

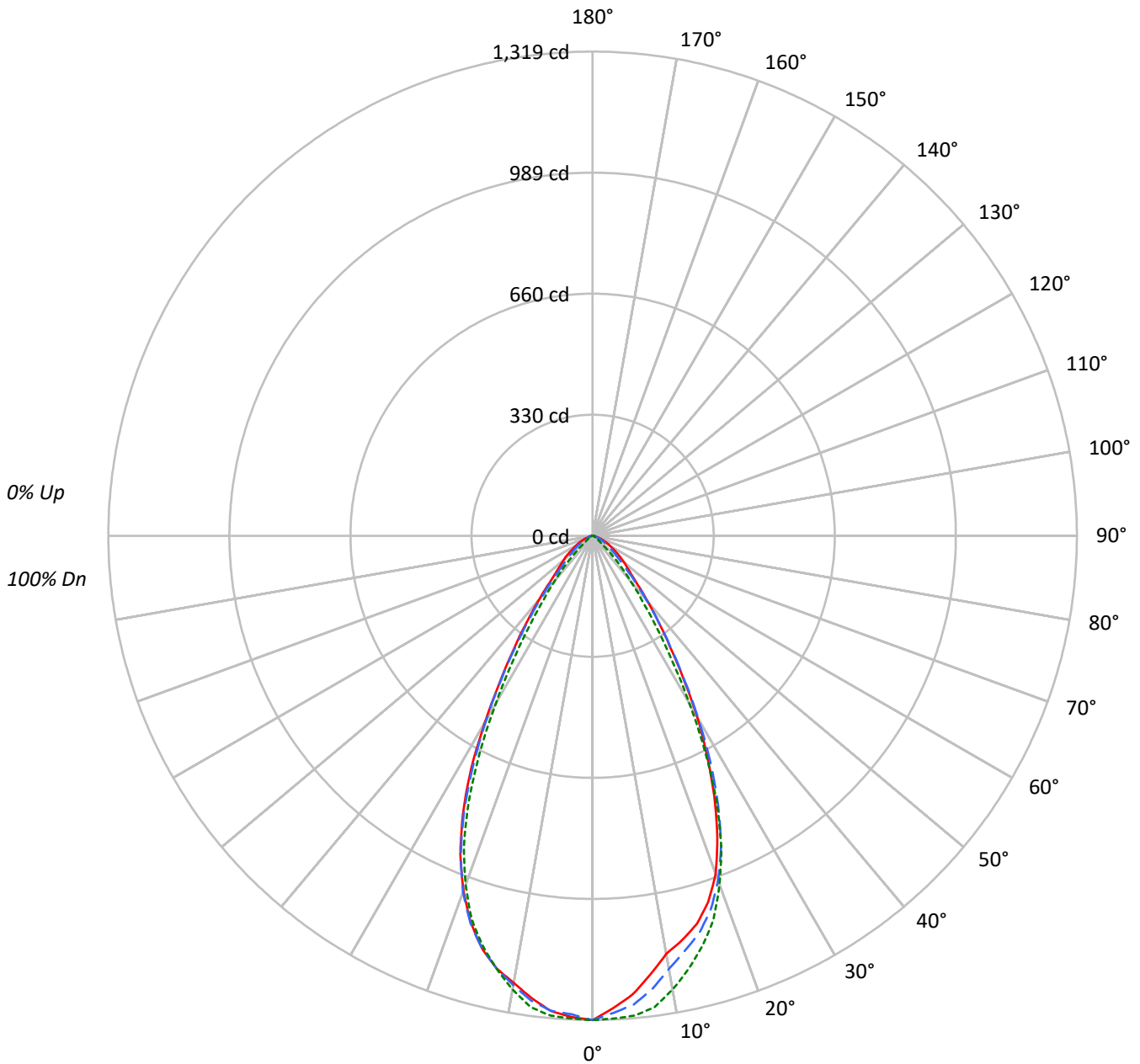
Lumens per Lamp: N/A
Luminaire Lumens: 1201.0 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	162081	162081	162081
5°	154659	161812	160307
10°	144247	156572	154289
15°	139296	147067	148097
20°	128123	132124	134516
25°	106193	108131	113377
30°	80789	74717	83101
35°	54696	44768	55311
40°	37255	25644	36100
45°	25835	12926	24428
50°	21024	5256	19667
55°	17028	3277	15486
60°	13514	2506	12261
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°	121.3	10.1
10°-20°	318.7	26.5
20°-30°	365.7	30.4
30°-40°	222.1	18.5
40°-50°	95.2	7.9
50°-60°	45.7	3.8
60°-70°	22.2	1.8
70°-80°	8.2	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°	805.7	67.1
0°-40°	1027.8	85.6
0°-60°	1168.6	97.3
0°-90°	1201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1319	1319	1319	1319	1319	
5°	1254	1282	1312	1299	1300	117
15°	1095	1121	1156	1163	1164	305
25°	783	809	798	828	836	355
35°	365	370	298	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°	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3
2.5°	1287.7	1302.0	1300.9	1313.2	1316.2	1313.2	1305.0	1313.2	1312.1
5°	1254.1	1270.4	1281.6	1302.0	1312.1	1310.1	1298.9	1300.9	1299.9
7.5°	1205.2	1225.6	1244.9	1275.5	1294.8	1293.8	1277.5	1274.5	1270.4
10°	1156.3	1175.6	1198.0	1229.6	1255.1	1259.2	1242.9	1238.8	1236.8
12.5°	1127.8	1143.0	1158.3	1185.8	1208.2	1216.4	1207.2	1208.2	1207.2
15°	1095.2	1110.4	1120.6	1141.0	1156.3	1167.5	1163.4	1169.5	1164.4
17.5°	1046.3	1064.6	1068.7	1083.9	1095.2	1102.3	1106.4	1112.5	1104.3
20°	980.0	994.3	999.4	1005.5	1010.6	1019.8	1032.0	1038.1	1028.9
22.5°	887.3	914.8	913.8	910.8	915.9	918.9	938.3	948.5	941.3
25°	783.4	811.9	808.9	796.7	797.7	803.8	828.2	841.5	836.4
27.5°	674.4	700.9	693.8	670.3	664.2	673.4	705.0	720.3	717.2
30°	569.5	586.8	575.6	533.8	526.7	537.9	578.6	593.9	585.8
32.5°	456.4	469.6	464.5	413.6	401.4	412.6	460.5	474.7	465.6
35°	364.7	376.9	369.8	309.7	298.5	310.7	360.6	376.9	368.8
37.5°	292.4	301.5	292.4	228.2	218.0	230.2	278.1	299.5	289.3
40°	232.3	239.4	227.2	168.1	159.9	166.1	210.9	232.3	225.1
42.5°	183.4	188.5	175.2	123.3	114.1	122.2	158.9	178.3	174.2
45°	148.7	148.7	132.4	85.6	74.4	82.5	119.2	139.6	140.6
47.5°	127.3	124.3	103.9	57.0	42.8	54.0	94.7	116.1	119.2
50°	110.0	105.9	85.6	41.8	27.5	38.7	78.4	99.8	102.9
52.5°	94.7	91.7	71.3	32.6	19.4	29.5	66.2	86.6	89.6
55°	79.5	77.4	59.1	25.5	15.3	22.4	53.0	70.3	72.3
57.5°	65.2	62.1	47.9	21.4	12.2	18.3	43.8	58.1	60.1
60°	55.0	52.0	38.7	17.3	10.2	14.3	35.7	47.9	49.9
62.5°	45.8	42.8	31.6	14.3	8.1	12.2	28.5	38.7	40.7
65°	36.7	34.6	24.4	11.2	7.1	9.2	22.4	30.6	32.6
67.5°	29.5	27.5	19.4	9.2	6.1	7.1	17.3	24.4	26.5
70°	22.4	20.4	14.3	7.1	5.1	6.1	13.2	18.3	20.4
72.5°	16.3	15.3	11.2	6.1	4.1	5.1	9.2	13.2	15.3
75°	12.2	11.2	8.1	4.1	3.1	4.1	7.1	10.2	11.2
77.5°	8.1	8.1	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)