

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: P856945

Luminaire Tested: **LD4C15D010 EU4159035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856945
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: LD4C15D010 EU4159035 4LBMDSWGPH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

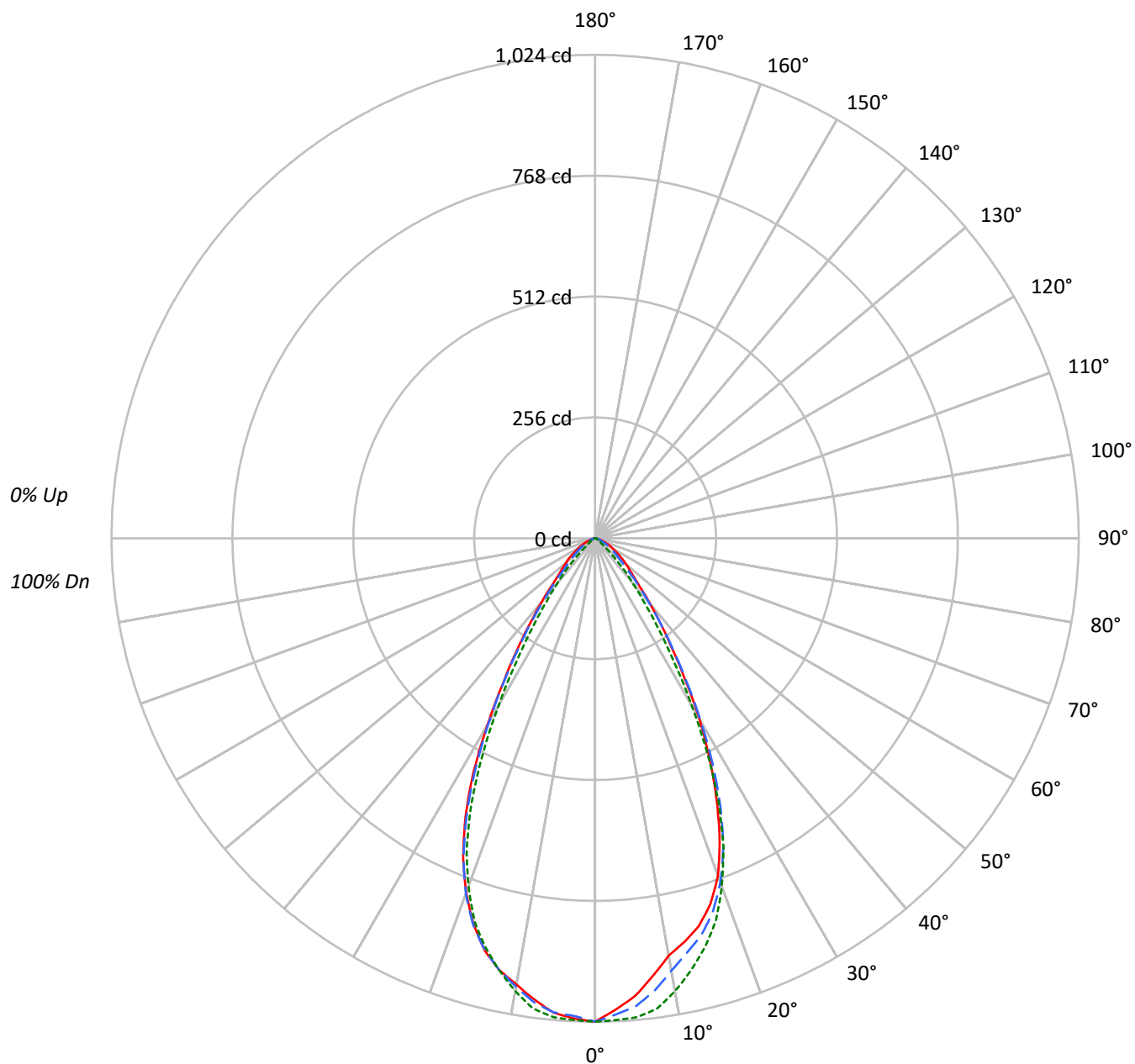
Lumens per Lamp: N/A
Luminaire Lumens: 932.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	91	82	75	71	89	81	75	71	79	74	70		77	73	69		76
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64
9	74	63	57	53	72	63	57	53	62	57	53		61	56	53		60
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	125777	125777	125777
5°	120018	125580	124408
10°	111937	121505	119734
15°	108096	114125	114926
20°	99426	102525	104394
25°	82403	83908	87988
30°	62687	57978	64489
35°	42443	34735	42923
40°	28915	19902	28017
45°	20050	10025	18955
50°	16322	4071	15252
55°	13215	2549	12016
60°	10492	1941	9509
65°	8285	1599	7355
70°	6250	1437	5675
75°	4509	1139	4130
80°	3325	1132	2830
85°	2255	1128	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	10.1
10°-20°	247.3	26.5
20°-30°	283.8	30.4
30°-40°	172.4	18.5
40°-50°	73.9	7.9
50°-60°	35.4	3.8
60°-70°	17.2	1.8
70°-80°	6.4	0.7
80°-90°	1.5	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°	625.2	67.1
0°-40°	797.6	85.6
0°-60°	906.9	97.3
0°-90°	932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	932.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1024	1024	1024	1024	1024	
5°	973	994	1018	1008	1009	90
15°	850	870	897	903	904	237
25°	608	628	619	643	649	276
35°	283	287	232	280	286	181
45°	115	103	58	92	109	94
55°	62	46	12	41	56	56
65°	28	19	6	17	25	29
75°	10	6	2	6	9	10
85°	2	2	1	1	2	2
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°	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8
2.5°	999.3	1010.3	1009.6	1019.0	1021.4	1019.0	1012.7	1019.0	1018.3
5°	973.2	985.8	994.5	1010.3	1018.3	1016.7	1008.0	1009.6	1008.8
7.5°	935.2	951.1	966.1	989.8	1004.8	1004.0	991.4	989.0	985.8
10°	897.3	912.3	929.7	954.2	974.0	977.1	964.5	961.3	959.8
12.5°	875.2	887.0	898.9	920.2	937.6	943.9	936.8	937.6	936.8
15°	849.9	861.7	869.6	885.4	897.3	906.0	902.8	907.6	903.6
17.5°	811.9	826.1	829.3	841.2	849.9	855.4	858.6	863.3	857.0
20°	760.5	771.6	775.5	780.3	784.2	791.4	800.8	805.6	798.5
22.5°	688.6	709.9	709.1	706.8	710.7	713.1	728.1	736.0	730.5
25°	607.9	630.1	627.7	618.2	619.0	623.8	642.7	653.0	649.1
27.5°	523.4	543.9	538.4	520.2	515.5	522.6	547.1	558.9	556.6
30°	441.9	455.4	446.7	414.3	408.7	417.4	449.0	460.9	454.6
32.5°	354.2	364.5	360.5	321.0	311.5	320.2	357.3	368.4	361.3
35°	283.0	292.5	287.0	240.3	231.6	241.1	279.9	292.5	286.2
37.5°	226.9	234.0	226.9	177.1	169.2	178.7	215.8	232.4	224.5
40°	180.3	185.8	176.3	130.4	124.1	128.9	163.6	180.3	174.7
42.5°	142.3	146.3	136.0	95.7	88.5	94.9	123.3	138.3	135.2
45°	115.4	115.4	102.8	66.4	57.7	64.0	92.5	108.3	109.1
47.5°	98.8	96.4	80.6	44.3	33.2	41.9	73.5	90.1	92.5
50°	85.4	82.2	66.4	32.4	21.3	30.0	60.9	77.5	79.8
52.5°	73.5	71.2	55.3	25.3	15.0	22.9	51.4	67.2	69.6
55°	61.7	60.1	45.9	19.8	11.9	17.4	41.1	54.5	56.1
57.5°	50.6	48.2	37.2	16.6	9.5	14.2	34.0	45.1	46.6
60°	42.7	40.3	30.0	13.4	7.9	11.1	27.7	37.2	38.7
62.5°	35.6	33.2	24.5	11.1	6.3	9.5	22.1	30.0	31.6
65°	28.5	26.9	19.0	8.7	5.5	7.1	17.4	23.7	25.3
67.5°	22.9	21.3	15.0	7.1	4.7	5.5	13.4	19.0	20.6
70°	17.4	15.8	11.1	5.5	4.0	4.7	10.3	14.2	15.8
72.5°	12.6	11.9	8.7	4.7	3.2	4.0	7.1	10.3	11.9
75°	9.5	8.7	6.3	3.2	2.4	3.2	5.5	7.9	8.7
77.5°	6.3	6.3	4.7	2.4	2.4	2.4	4.0	5.5	5.5
80°	4.7	4.0	3.2	1.6	1.6	1.6	2.4	4.0	4.0
82.5°	3.2	2.4	2.4	1.6	1.6	1.6	1.6	2.4	2.4
85°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)