

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: P856968

Luminaire Tested: **LD4C15D010 EU4159040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856968
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 EU4159040 4LBMDSWGPH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

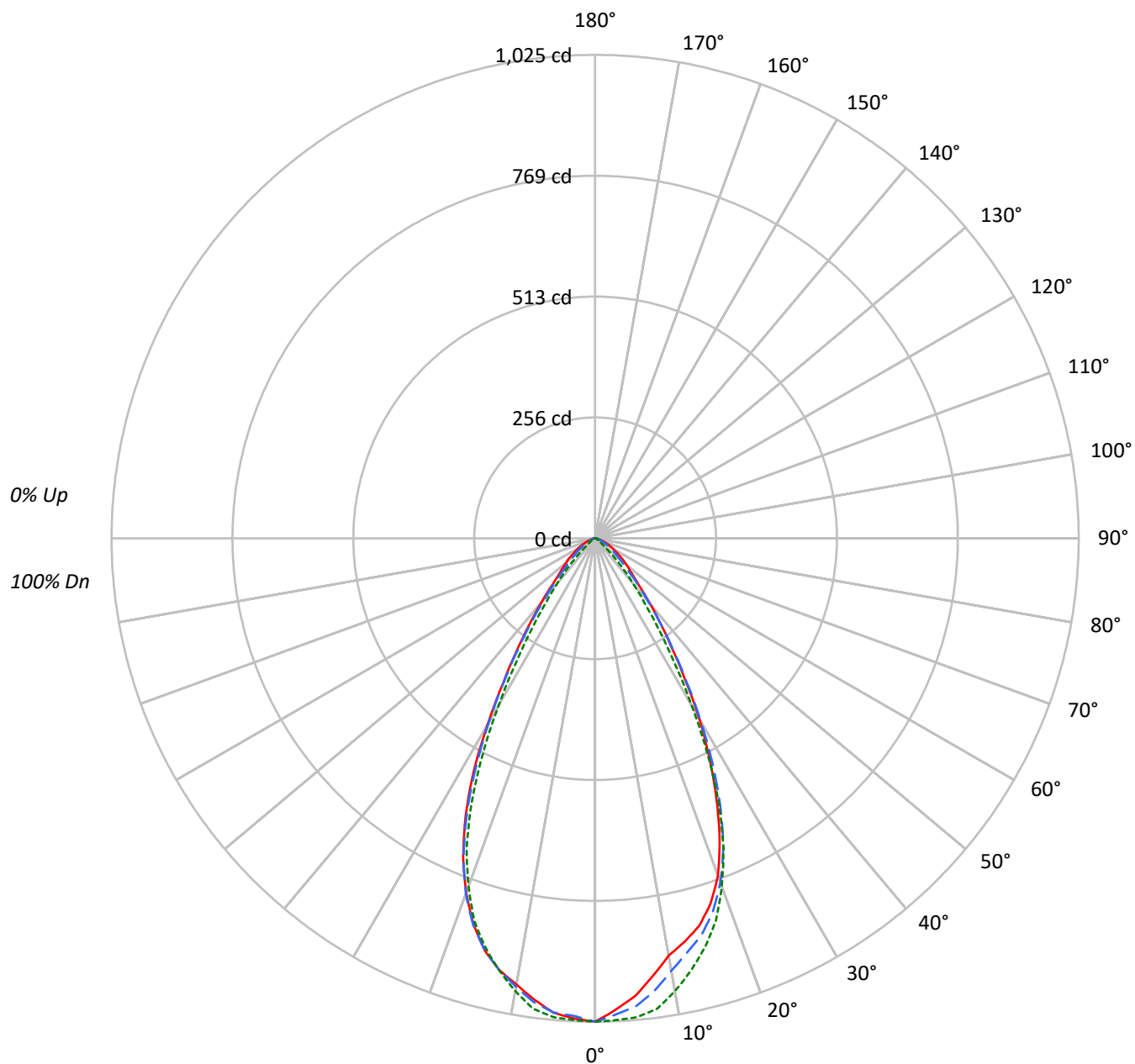
Lumens per Lamp: N/A
Luminaire Lumens: 933.0 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	125913	125913	125913
5°	120141	125703	124531
10°	112062	121630	119859
15°	108211	114252	115054
20°	99531	102642	104499
25°	82498	84003	88083
30°	62758	58049	64560
35°	42488	34780	42968
40°	28931	19934	28049
45°	20067	10042	18973
50°	16341	4090	15271
55°	13215	2549	12037
60°	10492	1941	9533
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°	94.2	10.1
10°-20°	247.6	26.5
20°-30°	284.1	30.4
30°-40°	172.6	18.5
40°-50°	74.0	7.9
50°-60°	35.5	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°	625.9	67.1
0°-40°	798.4	85.6
0°-60°	907.9	97.3
0°-90°	933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1025	1025	1025	1025	1025	
5°	974	996	1019	1009	1010	91
15°	851	871	898	904	905	237
25°	609	628	620	643	650	276
35°	283	287	232	280	286	182
45°	116	103	58	93	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°	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9	1024.9
2.5°	1000.4	1011.4	1010.6	1020.1	1022.5	1020.1	1013.8	1020.1	1019.3
5°	974.2	986.9	995.6	1011.4	1019.3	1017.8	1009.1	1010.6	1009.8
7.5°	936.2	952.1	967.1	990.9	1005.9	1005.1	992.4	990.1	986.9
10°	898.3	913.3	930.7	955.2	975.0	978.2	965.5	962.4	960.8
12.5°	876.1	888.0	899.8	921.2	938.6	945.0	937.8	938.6	937.8
15°	850.8	862.6	870.6	886.4	898.3	907.0	903.8	908.5	904.6
17.5°	812.8	827.0	830.2	842.1	850.8	856.3	859.5	864.2	857.9
20°	761.3	772.4	776.4	781.1	785.1	792.2	801.7	806.5	799.3
22.5°	689.3	710.7	709.9	707.5	711.5	713.9	728.9	736.8	731.3
25°	608.6	630.8	628.4	618.9	619.7	624.4	643.4	653.7	649.8
27.5°	523.9	544.5	539.0	520.8	516.0	523.1	547.7	559.5	557.2
30°	442.4	455.9	447.2	414.7	409.2	417.9	449.5	461.4	455.1
32.5°	354.6	364.8	360.9	321.3	311.8	320.5	357.7	368.8	361.7
35°	283.3	292.8	287.3	240.6	231.9	241.4	280.2	292.8	286.5
37.5°	227.1	234.3	227.1	177.3	169.4	178.9	216.1	232.7	224.8
40°	180.4	186.0	176.5	130.6	124.3	129.0	163.8	180.4	174.9
42.5°	142.5	146.4	136.1	95.8	88.6	95.0	123.5	138.5	135.3
45°	115.5	115.5	102.9	66.5	57.8	64.1	92.6	108.4	109.2
47.5°	98.9	96.6	80.7	44.3	33.2	41.9	73.6	90.2	92.6
50°	85.5	82.3	66.5	32.4	21.4	30.1	60.9	77.6	79.9
52.5°	73.6	71.2	55.4	25.3	15.0	23.0	51.4	67.3	69.6
55°	61.7	60.1	45.9	19.8	11.9	17.4	41.2	54.6	56.2
57.5°	50.7	48.3	37.2	16.6	9.5	14.2	34.0	45.1	46.7
60°	42.7	40.4	30.1	13.5	7.9	11.1	27.7	37.2	38.8
62.5°	35.6	33.2	24.5	11.1	6.3	9.5	22.2	30.1	31.7
65°	28.5	26.9	19.0	8.7	5.5	7.1	17.4	23.7	25.3
67.5°	23.0	21.4	15.0	7.1	4.7	5.5	13.5	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°	12.7	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)