

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: P856922

Luminaire Tested: **LD4C15D010 EU4159030 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856922
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 EU4159030 4LBMDSWGPH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

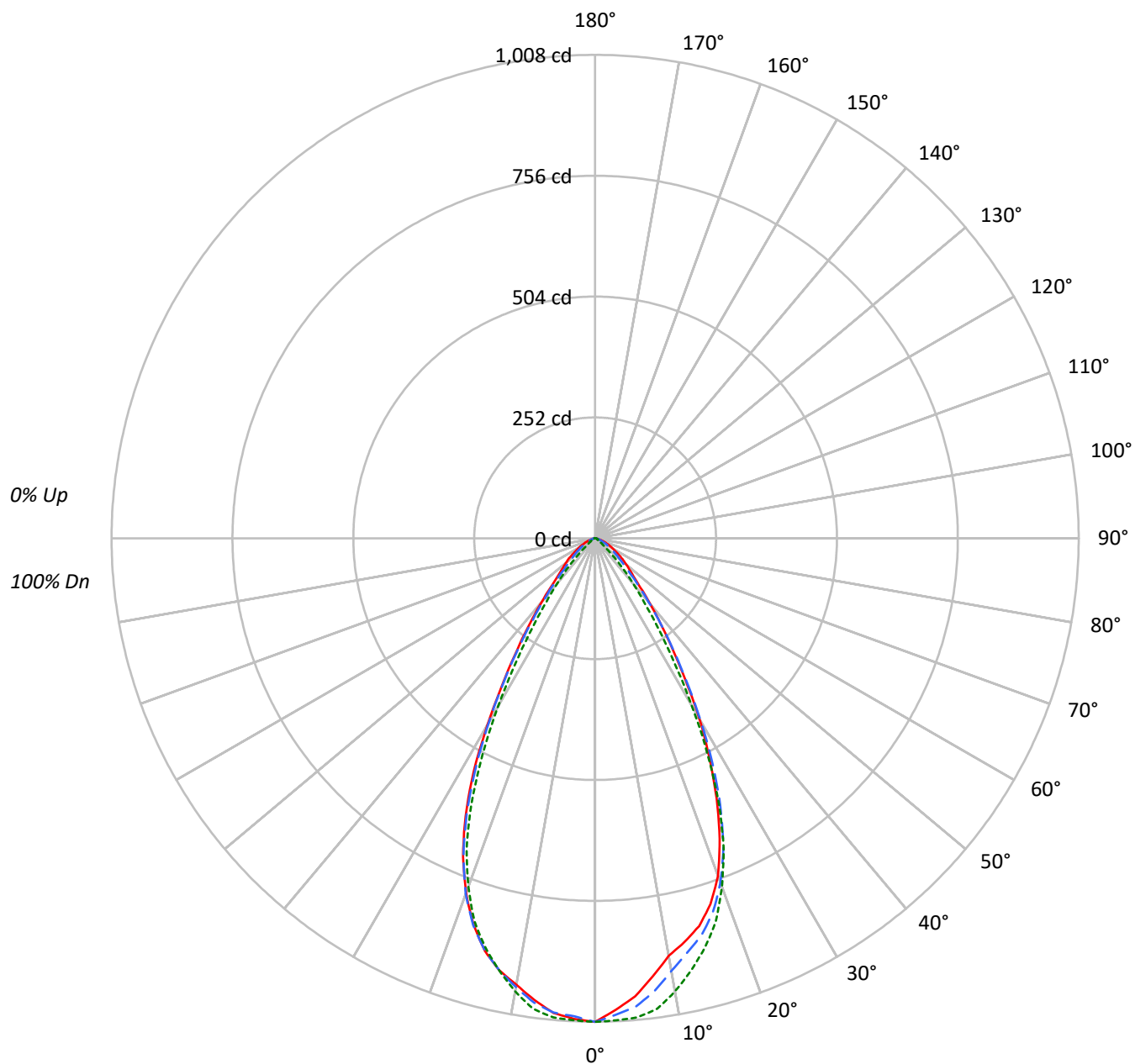
Lumens per Lamp: N/A
Luminaire Lumens: 918.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	123885	123885	123885
5°	118217	123693	122533
10°	110253	119684	117925
15°	106468	112408	113197
20°	97936	100995	102825
25°	81170	82647	86660
30°	61751	57112	63510
35°	41813	34225	42278
40°	28466	19614	27600
45°	19754	9868	18677
50°	16074	4014	15023
55°	13001	2506	11845
60°	10320	1917	9386
65°	8139	1599	7238
70°	6142	1401	5604
75°	4414	1092	4082
80°	3325	1132	2759
85°	2255	1128	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	10.1
10°-20°	243.6	26.5
20°-30°	279.5	30.4
30°-40°	169.8	18.5
40°-50°	72.8	7.9
50°-60°	34.9	3.8
60°-70°	17.0	1.8
70°-80°	6.3	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°	615.8	67.1
0°-40°	785.6	85.6
0°-60°	893.3	97.3
0°-90°	918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	918.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1008	1008	1008	1008	1008	
5°	959	980	1003	993	994	89
15°	837	857	884	889	890	233
25°	599	618	610	633	639	272
35°	279	283	228	276	282	179
45°	114	101	57	91	108	92
55°	61	45	12	40	55	55
65°	28	19	6	17	25	28
75°	9	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°	1008.4	1008.4	1008.4	1008.4	1008.4	1008.4	1008.4	1008.4	1008.4
2.5°	984.3	995.2	994.4	1003.7	1006.1	1003.7	997.5	1003.7	1003.0
5°	958.6	971.0	979.6	995.2	1003.0	1001.4	992.8	994.4	993.6
7.5°	921.2	936.8	951.6	974.9	989.7	988.9	976.5	974.1	971.0
10°	883.8	898.6	915.7	939.9	959.4	962.5	950.0	946.9	945.3
12.5°	862.0	873.7	885.4	906.4	923.5	929.8	922.8	923.5	922.8
15°	837.1	848.8	856.6	872.1	883.8	892.4	889.3	893.9	890.0
17.5°	799.7	813.7	816.9	828.5	837.1	842.5	845.7	850.3	844.1
20°	749.1	760.0	763.9	768.6	772.5	779.5	788.8	793.5	786.5
22.5°	678.2	699.3	698.5	696.2	700.0	702.4	717.2	725.0	719.5
25°	598.8	620.6	618.3	608.9	609.7	614.4	633.1	643.2	639.3
27.5°	515.5	535.7	530.3	512.4	507.7	514.7	538.9	550.5	548.2
30°	435.3	448.5	440.0	408.0	402.6	411.2	442.3	454.0	447.7
32.5°	348.9	359.0	355.1	316.2	306.8	315.4	352.0	362.9	355.9
35°	278.8	288.1	282.7	236.7	228.2	237.5	275.7	288.1	281.9
37.5°	223.5	230.5	223.5	174.4	166.6	176.0	212.6	228.9	221.1
40°	177.5	183.0	173.6	128.5	122.3	126.9	161.2	177.5	172.1
42.5°	140.2	144.1	133.9	94.2	87.2	93.4	121.5	136.3	133.2
45°	113.7	113.7	101.2	65.4	56.8	63.1	91.1	106.7	107.5
47.5°	97.3	95.0	79.4	43.6	32.7	41.3	72.4	88.8	91.1
50°	84.1	81.0	65.4	31.9	21.0	29.6	60.0	76.3	78.6
52.5°	72.4	70.1	54.5	24.9	14.8	22.6	50.6	66.2	68.5
55°	60.7	59.2	45.2	19.5	11.7	17.1	40.5	53.7	55.3
57.5°	49.8	47.5	36.6	16.4	9.3	14.0	33.5	44.4	45.9
60°	42.0	39.7	29.6	13.2	7.8	10.9	27.3	36.6	38.2
62.5°	35.0	32.7	24.1	10.9	6.2	9.3	21.8	29.6	31.1
65°	28.0	26.5	18.7	8.6	5.5	7.0	17.1	23.4	24.9
67.5°	22.6	21.0	14.8	7.0	4.7	5.5	13.2	18.7	20.2
70°	17.1	15.6	10.9	5.5	3.9	4.7	10.1	14.0	15.6
72.5°	12.5	11.7	8.6	4.7	3.1	3.9	7.0	10.1	11.7
75°	9.3	8.6	6.2	3.1	2.3	3.1	5.5	7.8	8.6
77.5°	6.2	6.2	4.7	2.3	2.3	2.3	3.9	5.5	5.5
80°	4.7	3.9	3.1	1.6	1.6	1.6	2.3	3.9	3.9
82.5°	3.1	2.3	2.3	1.6	1.6	1.6	1.6	2.3	2.3
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)