

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: P856991

Luminaire Tested: **LD4C15D010 EU4159050 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856991
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 EU4159050 4LBMDSWGPH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

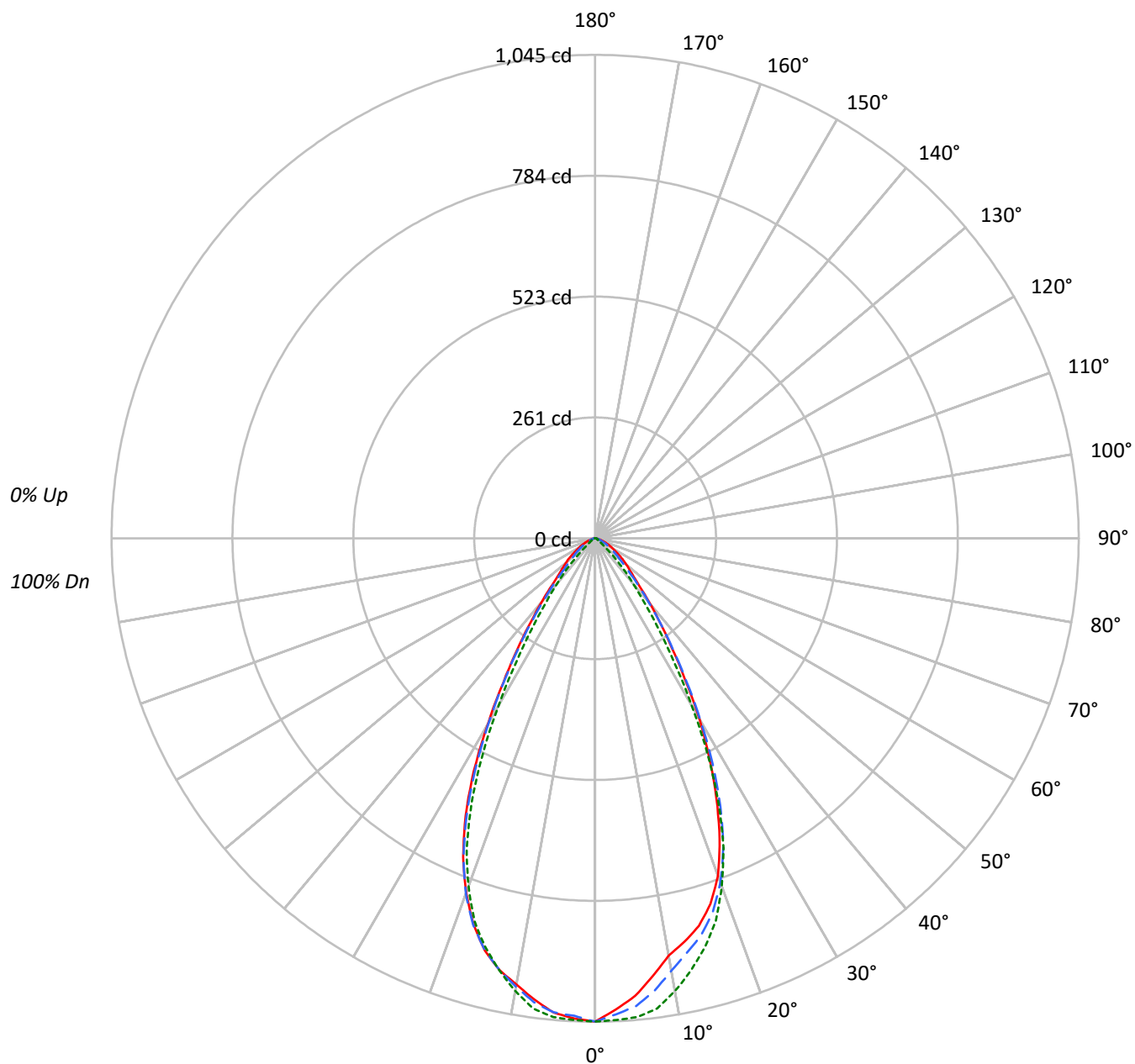
Lumens per Lamp: N/A
Luminaire Lumens: 951.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	128345	128345	128345
5°	122459	128132	126936
10°	114220	123975	122166
15°	110297	116453	117267
20°	101453	104616	106525
25°	84084	85616	89777
30°	63964	59169	65794
35°	43313	35454	43793
40°	29493	20303	28595
45°	20467	10233	19337
50°	16647	4167	15577
55°	13472	2592	12273
60°	10713	1990	9705
65°	8430	1628	7500
70°	6358	1437	5783
75°	4604	1139	4225
80°	3396	1132	2830
85°	2255	1128	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	10.1
10°-20°	252.4	26.5
20°-30°	289.5	30.4
30°-40°	175.9	18.5
40°-50°	75.4	7.9
50°-60°	36.2	3.8
60°-70°	17.6	1.8
70°-80°	6.5	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°	637.9	67.1
0°-40°	813.8	85.6
0°-60°	925.4	97.3
0°-90°	951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1045	1045	1045	1045	1045	
5°	993	1015	1039	1028	1029	92
15°	867	887	916	921	922	241
25°	620	640	632	656	662	281
35°	289	293	236	286	292	185
45°	118	105	59	94	111	96
55°	63	47	12	42	57	57
65°	29	19	6	18	26	29
75°	10	6	2	6	9	11
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°	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7
2.5°	1019.7	1030.9	1030.1	1039.8	1042.2	1039.8	1033.4	1039.8	1039.0
5°	993.0	1005.9	1014.8	1030.9	1039.0	1037.4	1028.5	1030.1	1029.3
7.5°	954.3	970.4	985.8	1010.0	1025.3	1024.5	1011.6	1009.2	1005.9
10°	915.6	930.9	948.7	973.7	993.8	997.1	984.2	980.9	979.3
12.5°	893.0	905.1	917.2	939.0	956.7	963.2	955.9	956.7	955.9
15°	867.2	879.3	887.4	903.5	915.6	924.5	921.2	926.1	922.0
17.5°	828.5	843.0	846.2	858.3	867.2	872.8	876.1	880.9	874.4
20°	776.0	787.3	791.4	796.2	800.2	807.5	817.2	822.0	814.8
22.5°	702.6	724.4	723.6	721.2	725.2	727.6	743.0	751.0	745.4
25°	620.3	642.9	640.5	630.8	631.6	636.5	655.8	666.3	662.3
27.5°	534.0	555.0	549.4	530.8	526.0	533.2	558.2	570.3	567.9
30°	450.9	464.7	455.8	422.7	417.1	425.9	458.2	470.3	463.8
32.5°	361.4	371.9	367.8	327.5	317.8	326.7	364.6	375.9	368.7
35°	288.8	298.5	292.8	245.2	236.4	246.0	285.6	298.5	292.0
37.5°	231.5	238.8	231.5	180.7	172.6	182.3	220.2	237.2	229.1
40°	183.9	189.6	179.9	133.1	126.6	131.5	167.0	183.9	178.3
42.5°	145.2	149.2	138.8	97.6	90.3	96.8	125.8	141.2	137.9
45°	117.8	117.8	104.9	67.8	58.9	65.3	94.4	110.5	111.3
47.5°	100.8	98.4	82.3	45.2	33.9	42.8	75.0	92.0	94.4
50°	87.1	83.9	67.8	33.1	21.8	30.7	62.1	79.1	81.5
52.5°	75.0	72.6	56.5	25.8	15.3	23.4	52.4	68.6	71.0
55°	62.9	61.3	46.8	20.2	12.1	17.7	41.9	55.7	57.3
57.5°	51.6	49.2	37.9	16.9	9.7	14.5	34.7	46.0	47.6
60°	43.6	41.1	30.7	13.7	8.1	11.3	28.2	37.9	39.5
62.5°	36.3	33.9	25.0	11.3	6.5	9.7	22.6	30.7	32.3
65°	29.0	27.4	19.4	8.9	5.6	7.3	17.7	24.2	25.8
67.5°	23.4	21.8	15.3	7.3	4.8	5.6	13.7	19.4	21.0
70°	17.7	16.1	11.3	5.6	4.0	4.8	10.5	14.5	16.1
72.5°	12.9	12.1	8.9	4.8	3.2	4.0	7.3	10.5	12.1
75°	9.7	8.9	6.5	3.2	2.4	3.2	5.6	8.1	8.9
77.5°	6.5	6.5	4.8	2.4	2.4	2.4	4.0	5.6	5.6
80°	4.8	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)