

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: P856967

Luminaire Tested: **LD4C15D010 EU4159040 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856967
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 4LBMDDWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

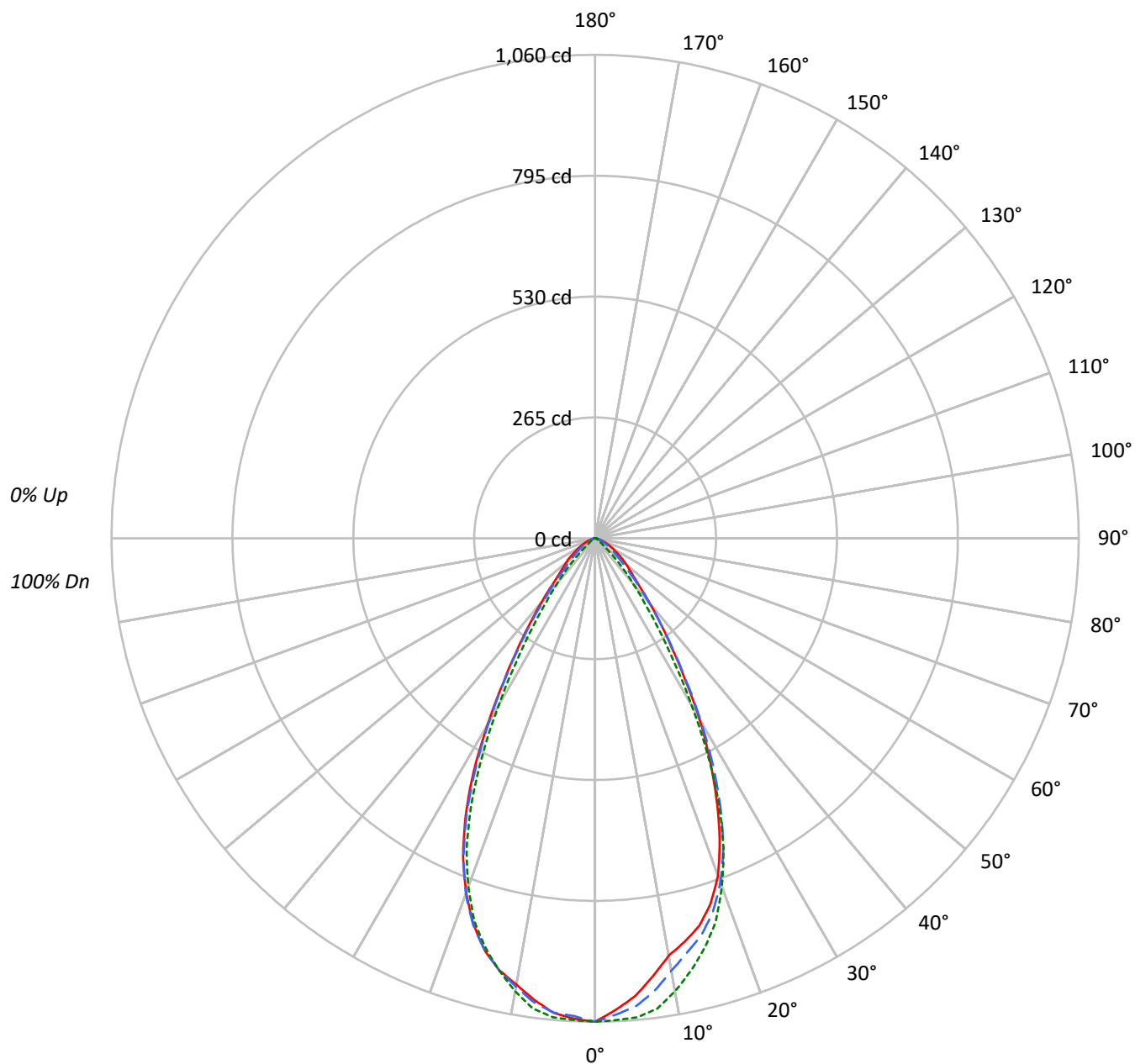
Lumens per Lamp: N/A
Luminaire Lumens: 965.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	130225	130225	130225
5°	124272	130019	128811
10°	115904	125809	123963
15°	111925	118170	118996
20°	102956	106159	108081
25°	85331	86876	91092
30°	64915	60035	66773
35°	43943	35964	44438
40°	29926	20608	29012
45°	20762	10390	19633
50°	16896	4224	15806
55°	13665	2635	12444
60°	10860	2015	9853
65°	8576	1657	7616
70°	6466	1473	5891
75°	4652	1187	4272
80°	3467	1132	2901
85°	2255	1128	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	10.1
10°-20°	256.1	26.5
20°-30°	293.8	30.4
30°-40°	178.5	18.5
40°-50°	76.5	7.9
50°-60°	36.7	3.8
60°-70°	17.8	1.8
70°-80°	6.6	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°	647.3	67.1
0°-40°	825.8	85.6
0°-60°	939.0	97.3
0°-90°	965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1060	1060	1060	1060	1060	
5°	1008	1030	1054	1044	1044	94
15°	880	900	929	935	936	245
25°	630	650	641	666	672	286
35°	293	297	240	290	296	188
45°	120	106	60	96	113	97
55°	64	48	12	43	58	58
65°	30	20	6	18	26	30
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°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1034.7	1046.1	1045.3	1055.1	1057.6	1055.1	1048.6	1055.1	1054.3
5°	1007.7	1020.7	1029.8	1046.1	1054.3	1052.7	1043.7	1045.3	1044.5
7.5°	968.4	984.7	1000.3	1024.8	1040.4	1039.6	1026.5	1024.0	1020.7
10°	929.1	944.6	962.6	988.0	1008.5	1011.7	998.6	995.4	993.7
12.5°	906.1	918.4	930.7	952.8	970.8	977.4	970.0	970.8	970.0
15°	880.0	892.2	900.4	916.8	929.1	938.1	934.8	939.7	935.6
17.5°	840.7	855.4	858.7	871.0	880.0	885.7	889.0	893.9	887.3
20°	787.5	798.9	803.0	807.9	812.0	819.4	829.2	834.1	826.7
22.5°	713.0	735.1	734.3	731.8	735.9	738.3	753.9	762.1	756.4
25°	629.5	652.4	649.9	640.1	640.9	645.8	665.5	676.1	672.0
27.5°	541.9	563.2	557.4	538.6	533.7	541.1	566.4	578.7	576.3
30°	457.6	471.5	462.5	428.9	423.2	432.2	464.9	477.2	470.7
32.5°	366.7	377.4	373.3	332.3	322.5	331.5	370.0	381.5	374.1
35°	293.0	302.9	297.1	248.8	239.8	249.7	289.8	302.9	296.3
37.5°	234.9	242.3	234.9	183.4	175.2	185.0	223.5	240.7	232.5
40°	186.6	192.4	182.5	135.1	128.5	133.4	169.4	186.6	180.9
42.5°	147.3	151.4	140.8	99.0	91.7	98.2	127.7	143.2	140.0
45°	119.5	119.5	106.4	68.8	59.8	66.3	95.8	112.1	113.0
47.5°	102.3	99.9	83.5	45.8	34.4	43.4	76.1	93.3	95.8
50°	88.4	85.1	68.8	33.6	22.1	31.1	63.0	80.2	82.7
52.5°	76.1	73.7	57.3	26.2	15.6	23.7	53.2	69.6	72.0
55°	63.8	62.2	47.5	20.5	12.3	18.0	42.6	56.5	58.1
57.5°	52.4	49.9	38.5	17.2	9.8	14.7	35.2	46.7	48.3
60°	44.2	41.7	31.1	13.9	8.2	11.5	28.6	38.5	40.1
62.5°	36.8	34.4	25.4	11.5	6.5	9.8	22.9	31.1	32.7
65°	29.5	27.8	19.6	9.0	5.7	7.4	18.0	24.6	26.2
67.5°	23.7	22.1	15.6	7.4	4.9	5.7	13.9	19.6	21.3
70°	18.0	16.4	11.5	5.7	4.1	4.9	10.6	14.7	16.4
72.5°	13.1	12.3	9.0	4.9	3.3	4.1	7.4	10.6	12.3
75°	9.8	9.0	6.5	3.3	2.5	3.3	5.7	8.2	9.0
77.5°	6.5	6.5	4.9	2.5	2.5	2.5	4.1	5.7	5.7
80°	4.9	4.1	3.3	1.6	1.6	1.6	2.5	4.1	4.1
82.5°	3.3	2.5	2.5	1.6	1.6	1.6	1.6	2.5	2.5
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)