

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: P856944

Luminaire Tested: **LD4C15D010 EU4159035 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856944
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 4LBMDDWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

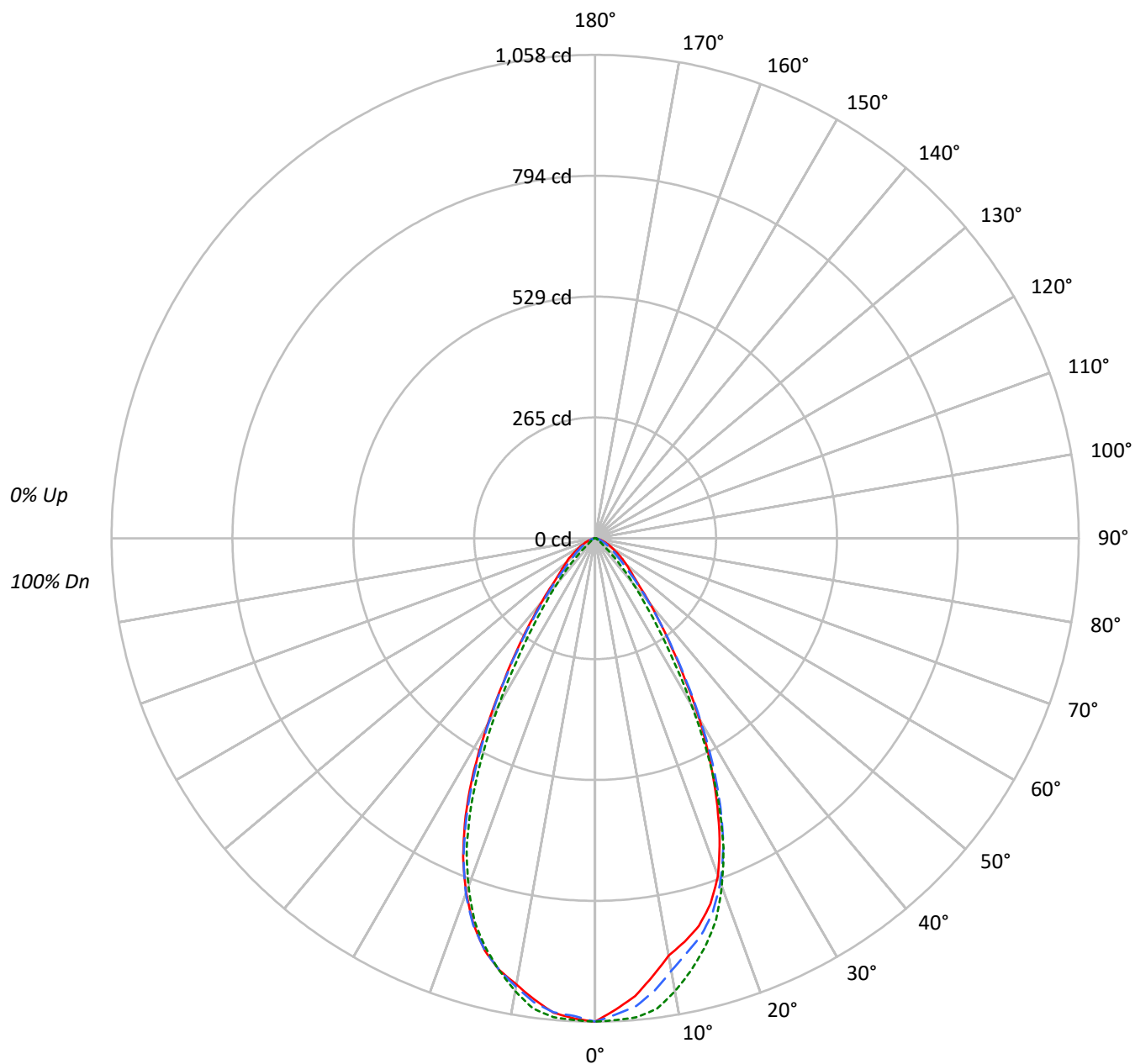
Lumens per Lamp: N/A
Luminaire Lumens: 963.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	129954	129954	129954
5°	124013	129748	128539
10°	115655	125547	123713
15°	111683	117915	118755
20°	102734	105937	107859
25°	85155	86700	90902
30°	64773	59907	66631
35°	43853	35889	44348
40°	29862	20560	28947
45°	20727	10355	19581
50°	16857	4224	15768
55°	13644	2635	12423
60°	10836	2015	9828
65°	8546	1657	7587
70°	6466	1473	5855
75°	4652	1187	4272
80°	3467	1132	2901
85°	2255	1128	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	10.1
10°-20°	255.5	26.5
20°-30°	293.2	30.4
30°-40°	178.1	18.5
40°-50°	76.3	7.9
50°-60°	36.6	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°	646.0	67.1
0°-40°	824.1	85.6
0°-60°	937.1	97.3
0°-90°	963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1058	1058	1058	1058	1058	
5°	1006	1028	1052	1042	1042	93
15°	878	899	927	933	934	244
25°	628	649	640	664	671	285
35°	292	296	239	289	296	187
45°	119	106	60	96	113	97
55°	64	47	12	42	58	58
65°	29	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°	1057.8	1057.8	1057.8	1057.8	1057.8	1057.8	1057.8	1057.8	1057.8
2.5°	1032.5	1044.0	1043.1	1052.9	1055.4	1052.9	1046.4	1052.9	1052.1
5°	1005.6	1018.6	1027.6	1044.0	1052.1	1050.5	1041.5	1043.1	1042.3
7.5°	966.4	982.7	998.2	1022.7	1038.2	1037.4	1024.3	1021.9	1018.6
10°	927.1	942.7	960.6	986.0	1006.4	1009.6	996.6	993.3	991.7
12.5°	904.3	916.5	928.8	950.8	968.8	975.3	968.0	968.8	968.0
15°	878.1	890.4	898.6	914.9	927.1	936.1	932.9	937.8	933.7
17.5°	838.9	853.6	856.9	869.1	878.1	883.8	887.1	892.0	885.5
20°	785.8	797.3	801.3	806.2	810.3	817.7	827.5	832.4	825.0
22.5°	711.5	733.5	732.7	730.3	734.4	736.8	752.3	760.5	754.8
25°	628.2	651.0	648.6	638.8	639.6	644.5	664.1	674.7	670.6
27.5°	540.8	562.0	556.3	537.5	532.6	539.9	565.3	577.5	575.1
30°	456.6	470.5	461.5	428.0	422.3	431.3	464.0	476.2	469.7
32.5°	366.0	376.6	372.5	331.6	321.8	330.8	369.2	380.7	373.3
35°	292.4	302.2	296.5	248.3	239.3	249.1	289.2	302.2	295.7
37.5°	234.4	241.8	234.4	183.0	174.8	184.6	223.0	240.2	232.0
40°	186.2	192.0	182.2	134.8	128.2	133.1	169.1	186.2	180.5
42.5°	147.0	151.1	140.5	98.8	91.5	98.0	127.4	143.0	139.7
45°	119.3	119.3	106.2	68.6	59.6	66.2	95.6	111.9	112.7
47.5°	102.1	99.7	83.3	45.7	34.3	43.3	76.0	93.1	95.6
50°	88.2	85.0	68.6	33.5	22.1	31.0	62.9	80.1	82.5
52.5°	76.0	73.5	57.2	26.1	15.5	23.7	53.1	69.4	71.9
55°	63.7	62.1	47.4	20.4	12.3	18.0	42.5	56.4	58.0
57.5°	52.3	49.8	38.4	17.2	9.8	14.7	35.1	46.6	48.2
60°	44.1	41.7	31.0	13.9	8.2	11.4	28.6	38.4	40.0
62.5°	36.8	34.3	25.3	11.4	6.5	9.8	22.9	31.0	32.7
65°	29.4	27.8	19.6	9.0	5.7	7.4	18.0	24.5	26.1
67.5°	23.7	22.1	15.5	7.4	4.9	5.7	13.9	19.6	21.2
70°	18.0	16.3	11.4	5.7	4.1	4.9	10.6	14.7	16.3
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)