

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: P856757

Luminaire Tested: **LD4C10D010 EU4109040 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P856757
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: LD4C10D010 EU4109040 4LBMDSWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

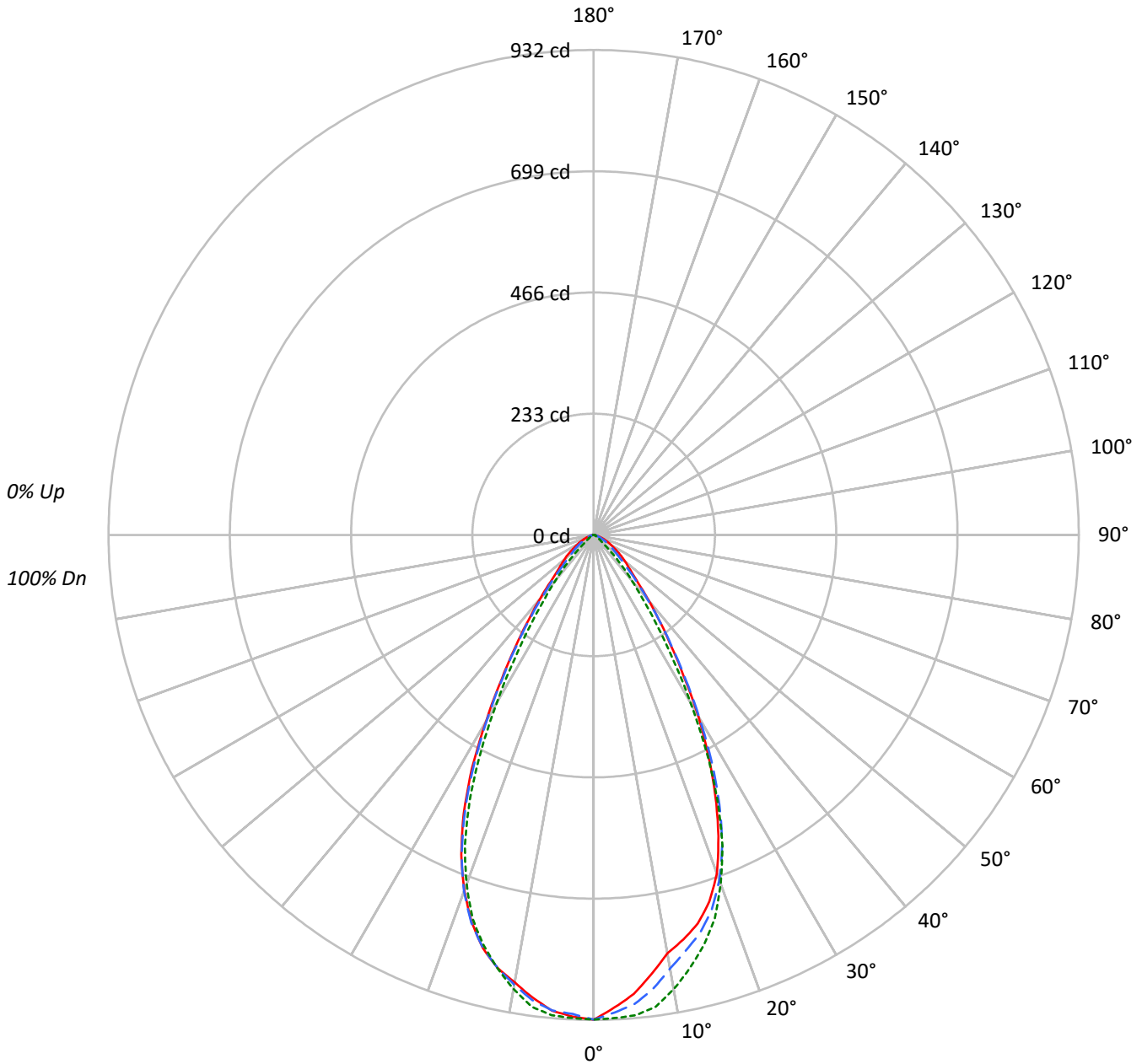
Lumens per Lamp: N/A
Luminaire Lumens: 848.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72					72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62					62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58					58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55					55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51					51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48					48			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	114438	114438	114438
5°	109202	114259	113186
10°	101845	110552	108943
15°	98354	103836	104573
20°	90471	93295	94981
25°	74988	76344	80058
30°	57041	52757	58673
35°	38619	31615	39054
40°	26301	18106	25499
45°	18243	9121	17252
50°	14850	3708	13895
55°	12016	2313	10945
60°	9533	1769	8649
65°	7529	1453	6686
70°	5675	1293	5172
75°	4082	1044	3750
80°	3042	990	2547
85°	1973	987	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	10.1
10°-20°	225.0	26.5
20°-30°	258.2	30.4
30°-40°	156.8	18.5
40°-50°	67.2	7.9
50°-60°	32.2	3.8
60°-70°	15.7	1.8
70°-80°	5.8	0.7
80°-90°	1.3	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°	568.9	67.1
0°-40°	725.7	85.6
0°-60°	825.2	97.3
0°-90°	848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	932	932	932	932	932	
5°	886	905	926	917	918	82
15°	773	791	816	822	822	215
25°	553	571	563	585	591	251
35°	258	261	211	255	260	165
45°	105	94	52	84	99	85
55°	56	42	11	37	51	51
65°	26	17	5	16	23	26
75°	9	6	2	5	8	9
85°	1	1	1	1	1	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°	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5
2.5°	909.2	919.3	918.6	927.2	929.4	927.2	921.4	927.2	926.5
5°	885.5	897.0	904.9	919.3	926.5	925.0	917.1	918.6	917.8
7.5°	851.0	865.3	879.0	900.6	914.3	913.5	902.0	899.9	897.0
10°	816.4	830.1	845.9	868.2	886.2	889.1	877.6	874.7	873.3
12.5°	796.3	807.1	817.9	837.3	853.1	858.9	852.4	853.1	852.4
15°	773.3	784.1	791.2	805.6	816.4	824.3	821.5	825.8	822.2
17.5°	738.7	751.7	754.6	765.4	773.3	778.3	781.2	785.5	779.7
20°	692.0	702.1	705.7	710.0	713.6	720.0	728.7	733.0	726.5
22.5°	626.5	645.9	645.2	643.1	646.7	648.8	662.5	669.7	664.6
25°	553.2	573.3	571.1	562.5	563.2	567.5	584.8	594.2	590.6
27.5°	476.2	494.9	489.9	473.3	469.0	475.5	497.8	508.6	506.4
30°	402.1	414.3	406.4	376.9	371.9	379.8	408.6	419.4	413.6
32.5°	322.3	331.6	328.0	292.0	283.4	291.3	325.1	335.2	328.7
35°	257.5	266.1	261.1	218.7	210.8	219.4	254.6	266.1	260.4
37.5°	206.4	212.9	206.4	161.1	153.9	162.6	196.4	211.5	204.3
40°	164.0	169.0	160.4	118.7	112.9	117.2	148.9	164.0	159.0
42.5°	129.5	133.1	123.7	87.0	80.6	86.3	112.2	125.9	123.0
45°	105.0	105.0	93.5	60.4	52.5	58.3	84.2	98.5	99.3
47.5°	89.9	87.8	73.4	40.3	30.2	38.1	66.9	82.0	84.2
50°	77.7	74.8	60.4	29.5	19.4	27.3	55.4	70.5	72.7
52.5°	66.9	64.7	50.4	23.0	13.7	20.9	46.8	61.1	63.3
55°	56.1	54.7	41.7	18.0	10.8	15.8	37.4	49.6	51.1
57.5°	46.0	43.9	33.8	15.1	8.6	12.9	30.9	41.0	42.4
60°	38.8	36.7	27.3	12.2	7.2	10.1	25.2	33.8	35.2
62.5°	32.4	30.2	22.3	10.1	5.8	8.6	20.1	27.3	28.8
65°	25.9	24.5	17.3	7.9	5.0	6.5	15.8	21.6	23.0
67.5°	20.9	19.4	13.7	6.5	4.3	5.0	12.2	17.3	18.7
70°	15.8	14.4	10.1	5.0	3.6	4.3	9.4	12.9	14.4
72.5°	11.5	10.8	7.9	4.3	2.9	3.6	6.5	9.4	10.8
75°	8.6	7.9	5.8	2.9	2.2	2.9	5.0	7.2	7.9
77.5°	5.8	5.8	4.3	2.2	2.2	2.2	3.6	5.0	5.0
80°	4.3	3.6	2.9	1.4	1.4	1.4	2.2	3.6	3.6
82.5°	2.9	2.2	2.2	1.4	1.4	1.4	1.4	2.2	2.2
85°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)