

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: P855857

Luminaire Tested: **LD4C80D010 EU4809027 4LBMLI**

Issue Date: 7/19/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P855857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208178)
Test Lab: INNOVATION CENTER
Issue Date: 7/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C80D010 EU4809027 4LBMLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBM TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

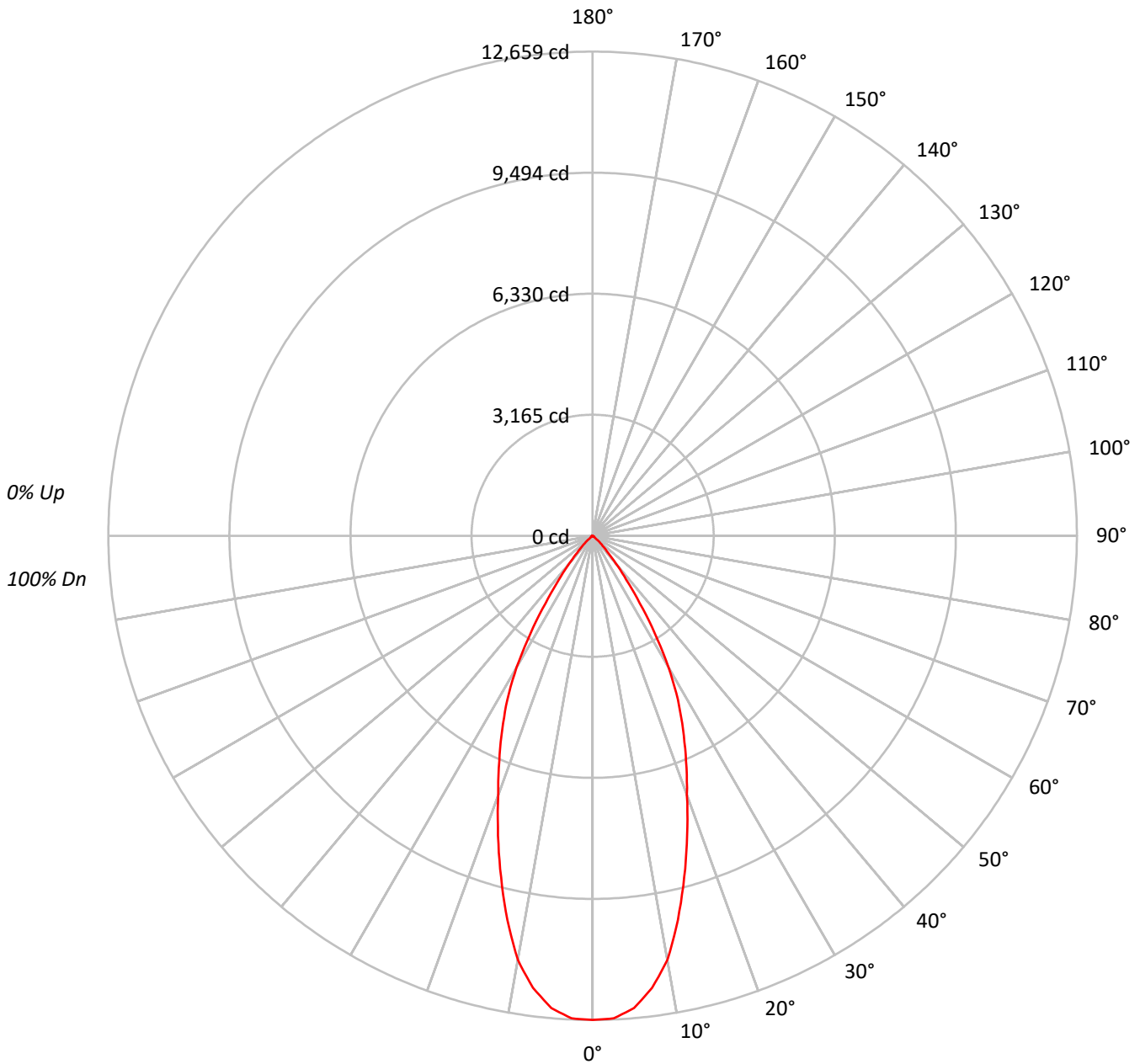
Lumens per Lamp: N/A
Luminaire Lumens: 8030.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
Input Voltage (V):
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

TEST NUMBER: P855857

CATALOG NUMBER: LD4C80D010 EU4809027 4LBMLI

Luminous Intensity Polar Plot





TEST NUMBER: P855857

CATALOG NUMBER: LD4C80D010 EU4809027 4LBMLI

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78			
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73			
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65			
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62			
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58			
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1555178
5°	1528758
10°	1404670
15°	1176342
20°	942437
25°	757244
30°	563705
35°	322029
40°	151136
45°	64180
50°	20431
55°	10410
60°	7175
65°	5640
70°	3484
75°	0
80°	0
85°	0



TEST NUMBER: P855857

CATALOG NUMBER: LD4C80D010 EU4809027 4LBMLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.2	14.3
10°-20°	2562.4	31.9
20°-30°	2547.6	31.7
30°-40°	1387.4	17.3
40°-50°	320.7	4.0
50°-60°	45.2	0.6
60°-70°	16.7	0.2
70°-80°	3.8	0.0
80°-90°	0.0	0.0
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°	6256.2	77.9
0°-40°	7643.6	95.2
0°-60°	8009.5	99.7
0°-90°	8030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8030.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12659	
5°	12396	###
15°	9249	2562
25°	5586	2548
35°	2147	1387
45°	369	321
55°	49	45
65°	19	17
75°	0	4
85°	0	0
90°	0	



TEST NUMBER: P855857

CATALOG NUMBER: LD4C80D010 EU4809027 4LBMLI

CANDELA DISTRIBUTION (FULL):

0°	
0°	12658.8
2.5°	12629.6
5°	12396.4
7.5°	11920.5
10°	11260.0
12.5°	10288.5
15°	9248.9
17.5°	8219.0
20°	7208.6
22.5°	6382.9
25°	5586.3
27.5°	4828.6
30°	3973.7
32.5°	3021.6
35°	2147.2
37.5°	1447.4
40°	942.4
42.5°	592.5
45°	369.4
47.5°	213.8
50°	106.9
52.5°	58.3
55°	48.6
57.5°	29.2
60°	29.2
62.5°	19.4
65°	19.4
67.5°	9.7
70°	9.7
72.5°	9.7
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)