

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: P839401

Luminaire Tested: **LD4C80D010 EU4809027 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C80D010 EU4809027 4LBPSMW
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

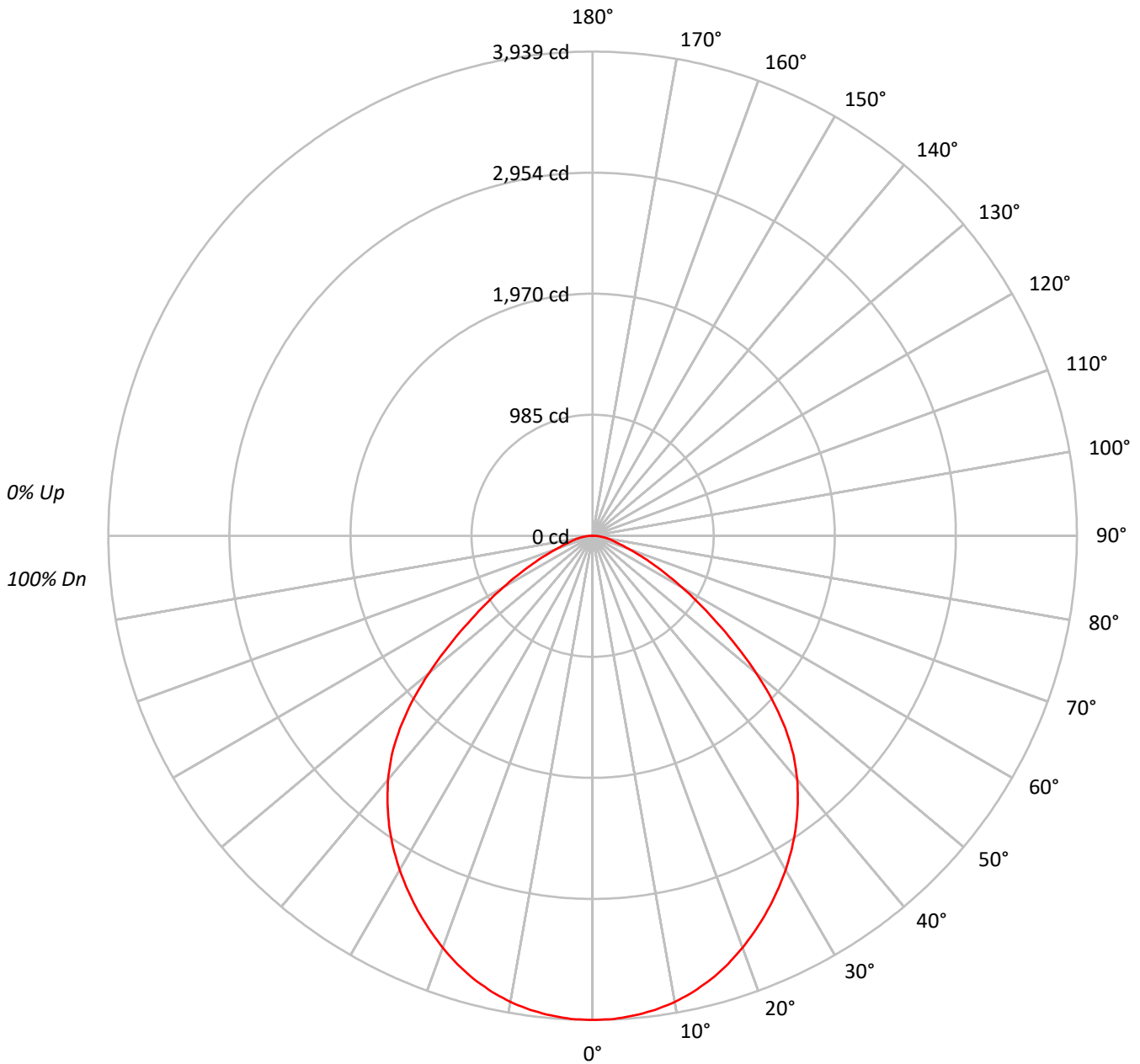
Lumens per Lamp: N/A
Luminaire Lumens: 8398.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
Input Voltage (V):
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																	
RC	80									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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88																											
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76																											
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																											
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																											
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51																											
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46																											
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41																											
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37																											
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33																											
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	483871
5°	483080
10°	480445
15°	474892
20°	466264
25°	456166
30°	445310
35°	432607
40°	415192
45°	385149
50°	331795
55°	264673
60°	206050
65°	154243
70°	111927
75°	88763
80°	83129
85°	82884



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	4.4
10°-20°	1051.5	12.5
20°-30°	1549.6	18.5
30°-40°	1800.1	21.4
40°-50°	1692.1	20.1
50°-60°	1120.0	13.3
60°-70°	539.7	6.4
70°-80°	208.1	2.5
80°-90°	64.9	0.8
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°	2973.0	35.4
0°-40°	4773.1	56.8
0°-60°	7585.2	90.3
0°-90°	8398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8398.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3939	
5°	3917	372
15°	3734	1052
25°	3365	1550
35°	2884	1800
45°	2217	1692
55°	1236	1120
65°	531	540
75°	187	208
85°	59	65
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3938.6
2.5°	3935.0
5°	3917.2
7.5°	3890.5
10°	3851.3
12.5°	3797.9
15°	3733.8
17.5°	3655.5
20°	3566.4
22.5°	3468.5
25°	3365.2
27.5°	3254.8
30°	3139.1
32.5°	3016.2
35°	2884.5
37.5°	2740.3
40°	2588.9
42.5°	2418.0
45°	2216.8
47.5°	1988.9
50°	1736.0
52.5°	1479.6
55°	1235.7
57.5°	1025.6
60°	838.6
62.5°	671.3
65°	530.6
67.5°	411.3
70°	311.6
72.5°	236.8
75°	187.0
77.5°	151.3
80°	117.5
82.5°	87.2
85°	58.8
87.5°	33.8
90°	0.0



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— 0°-180°







(END OF REPORT)