

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: P839224

Luminaire Tested: **LD4C20D010 EU4209030 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839224
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: LD4C20D010 EU4209030 4LBPSMW
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

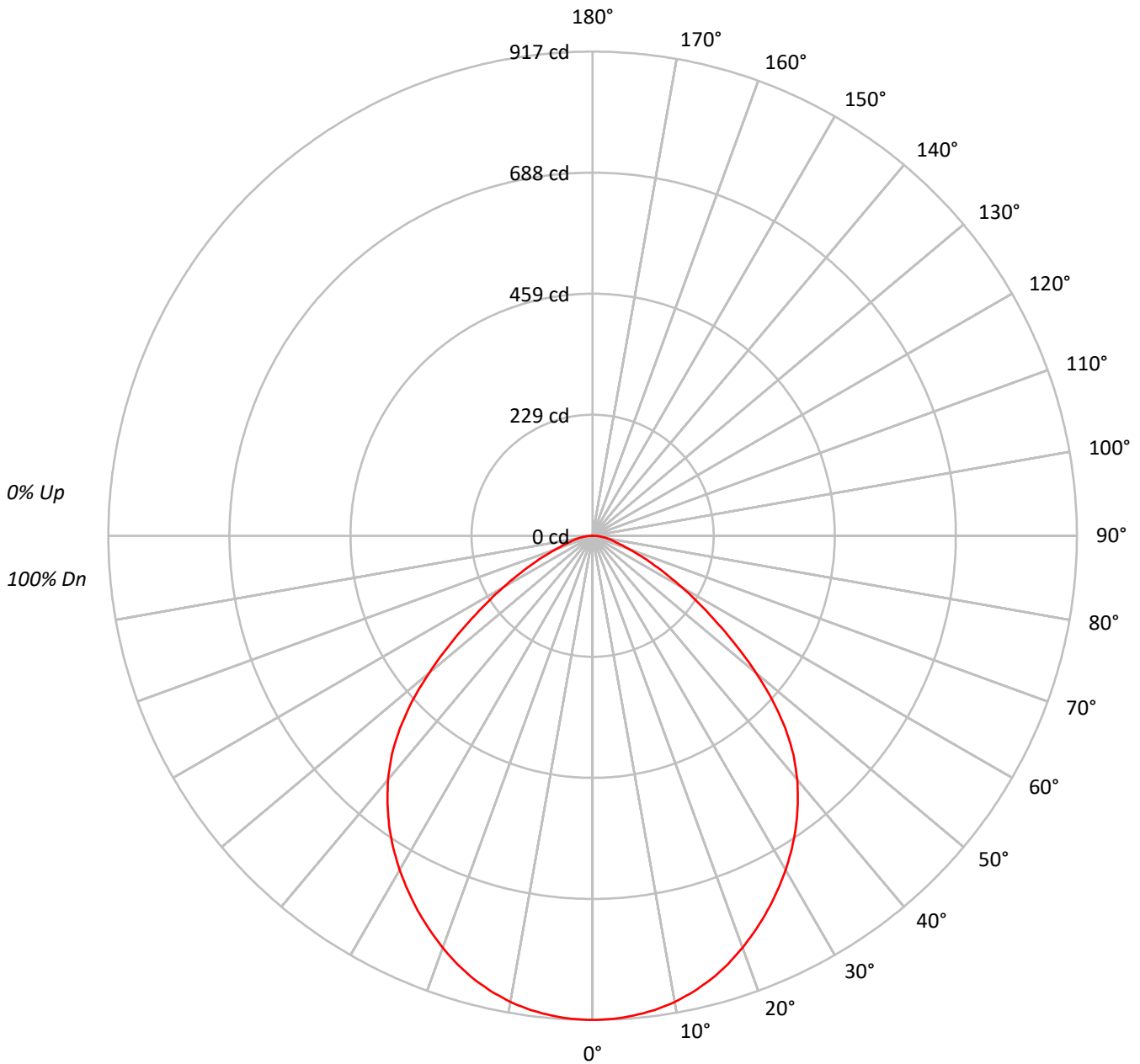
Lumens per Lamp: N/A
Luminaire Lumens: 1955.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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				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	100	100	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88	88	88	88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37	37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112644
5°	112458
10°	111850
15°	110551
20°	108539
25°	106193
30°	103671
35°	100709
40°	96657
45°	89668
50°	77234
55°	61622
60°	47962
65°	35901
70°	26042
75°	20648
80°	19385
85°	19311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	4.4
10°-20°	244.8	12.5
20°-30°	360.7	18.5
30°-40°	419.1	21.4
40°-50°	393.9	20.1
50°-60°	260.7	13.3
60°-70°	125.6	6.4
70°-80°	48.4	2.5
80°-90°	15.1	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°	692.1	35.4
0°-40°	1111.2	56.8
0°-60°	1765.8	90.3
0°-90°	1955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	917	
5°	912	87
15°	869	245
25°	783	361
35°	672	419
45°	516	394
55°	288	261
65°	124	126
75°	44	48
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	916.9
2.5°	916.0
5°	911.9
7.5°	905.7
10°	896.6
12.5°	884.1
15°	869.2
17.5°	851.0
20°	830.2
22.5°	807.4
25°	783.4
27.5°	757.7
30°	730.8
32.5°	702.2
35°	671.5
37.5°	637.9
40°	602.7
42.5°	562.9
45°	516.1
47.5°	463.0
50°	404.1
52.5°	344.4
55°	287.7
57.5°	238.8
60°	195.2
62.5°	156.3
65°	123.5
67.5°	95.7
70°	72.5
72.5°	55.1
75°	43.5
77.5°	35.2
80°	27.4
82.5°	20.3
85°	13.7
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)