

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: P839290

Luminaire Tested: **LD4C40D010 EU4409040 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839290
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: LD4C40D010 EU4409040 4LBPSMW
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

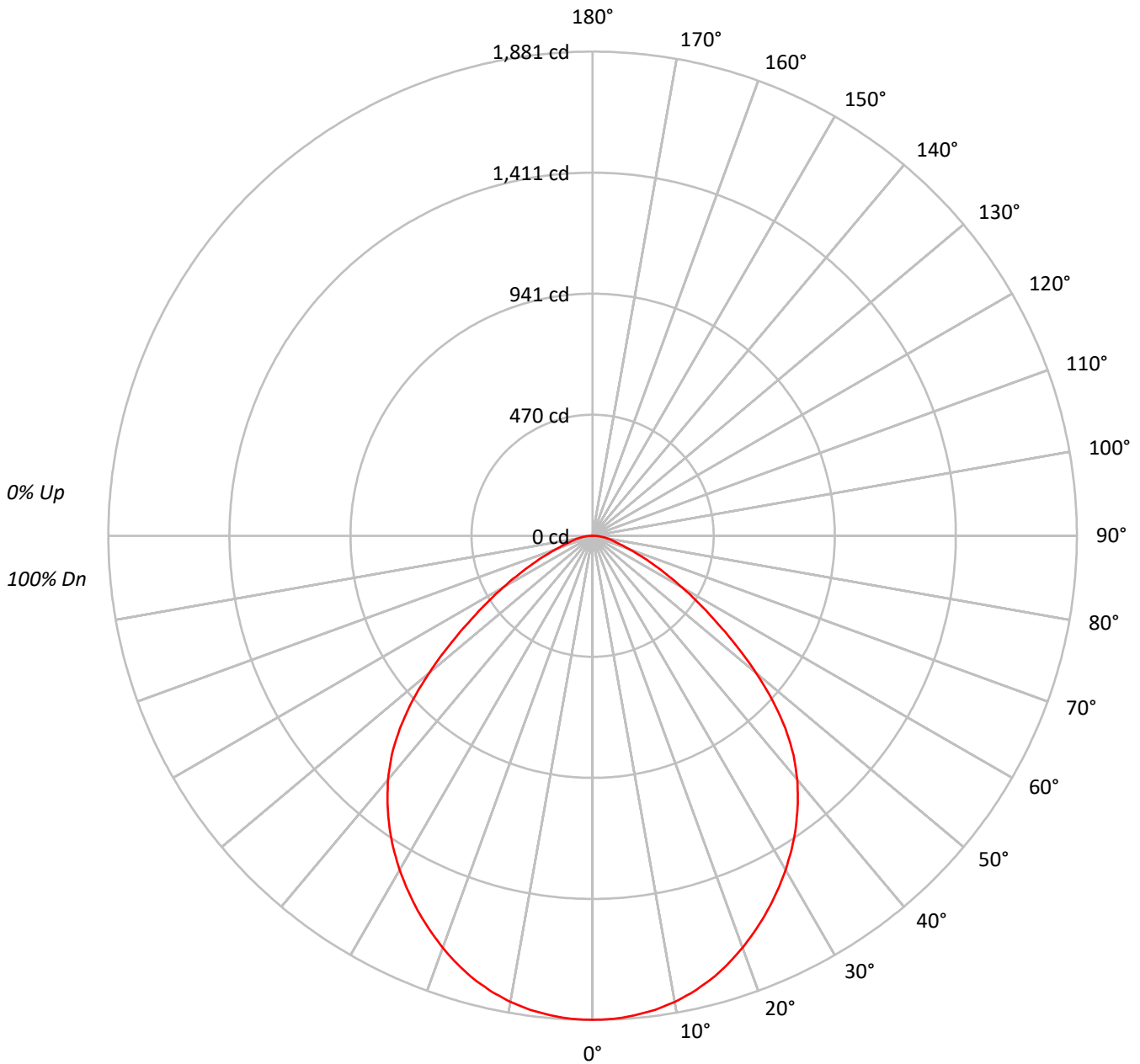
Lumens per Lamp: N/A
Luminaire Lumens: 4010.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	231038
5°	230663
10°	229413
15°	226762
20°	222647
25°	217821
30°	212632
35°	206562
40°	198254
45°	183905
50°	158424
55°	126371
60°	98381
65°	73662
70°	53449
75°	42388
80°	39690
85°	39609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	4.4
10°-20°	502.1	12.5
20°-30°	739.9	18.5
30°-40°	859.5	21.4
40°-50°	808.0	20.1
50°-60°	534.8	13.3
60°-70°	257.7	6.4
70°-80°	99.4	2.5
80°-90°	31.0	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°	1419.6	35.4
0°-40°	2279.1	56.8
0°-60°	3621.9	90.3
0°-90°	4010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1881	
5°	1870	178
15°	1783	502
25°	1607	740
35°	1377	860
45°	1058	808
55°	590	535
65°	253	258
75°	89	99
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1880.6
2.5°	1878.9
5°	1870.4
7.5°	1857.7
10°	1839.0
12.5°	1813.5
15°	1782.9
17.5°	1745.5
20°	1703.0
22.5°	1656.2
25°	1606.9
27.5°	1554.2
30°	1498.9
32.5°	1440.2
35°	1377.3
37.5°	1308.5
40°	1236.2
42.5°	1154.6
45°	1058.5
47.5°	949.7
50°	828.9
52.5°	706.5
55°	590.0
57.5°	489.7
60°	400.4
62.5°	320.5
65°	253.4
67.5°	196.4
70°	148.8
72.5°	113.1
75°	89.3
77.5°	72.3
80°	56.1
82.5°	41.7
85°	28.1
87.5°	16.2
90°	0.0



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— 0°-180°







(END OF REPORT)