

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: P840040

Luminaire Tested: **LDS4C40D010 EU4409050 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C40D010 EU4409050 4LBSB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

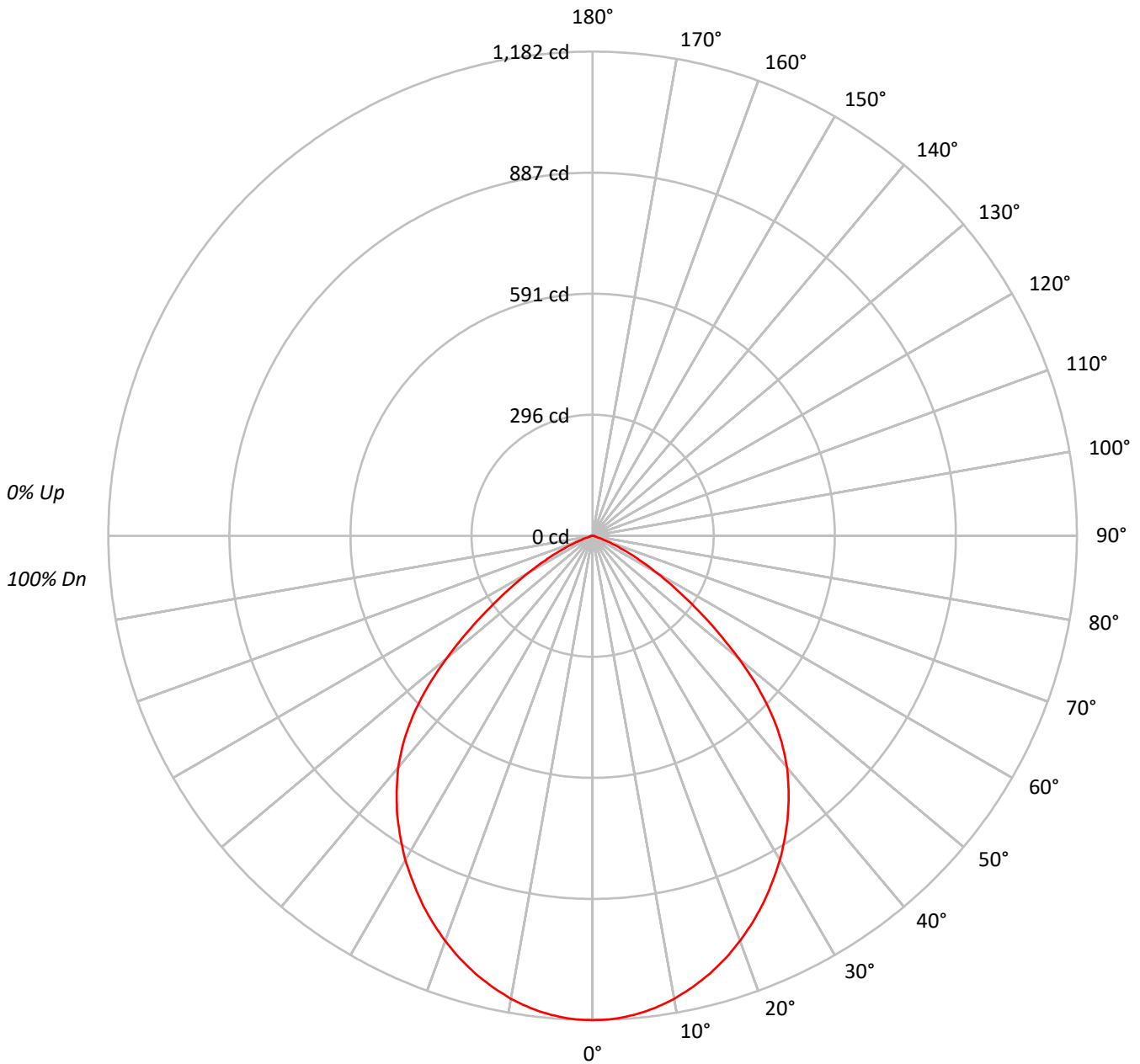
Lumens per Lamp: N/A
Luminaire Lumens: 2252.0 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	145274
5°	144781
10°	143187
15°	140720
20°	137562
25°	133887
30°	129673
35°	124675
40°	118388
45°	107633
50°	88874
55°	65435
60°	44424
65°	26017
70°	10273
75°	2326
80°	3042
85°	5215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	4.9
10°-20°	311.5	13.8
20°-30°	454.4	20.2
30°-40°	518.7	23.0
40°-50°	471.5	20.9
50°-60°	278.1	12.4
60°-70°	93.3	4.1
70°-80°	9.8	0.4
80°-90°	3.4	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°	877.2	39.0
0°-40°	1395.9	62.0
0°-60°	2145.6	95.3
0°-90°	2252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2252.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1182	
5°	1174	111
15°	1106	312
25°	988	454
35°	831	519
45°	620	472
55°	306	278
65°	90	93
75°	5	10
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1182.5
2.5°	1180.7
5°	1174.0
7.5°	1163.0
10°	1147.8
12.5°	1128.3
15°	1106.4
17.5°	1080.8
20°	1052.2
22.5°	1021.2
25°	987.7
27.5°	951.2
30°	914.1
32.5°	873.3
35°	831.3
37.5°	785.7
40°	738.2
42.5°	682.8
45°	619.5
47.5°	546.5
50°	465.0
52.5°	383.4
55°	305.5
57.5°	239.2
60°	180.8
62.5°	130.8
65°	89.5
67.5°	54.8
70°	28.6
72.5°	11.0
75°	4.9
77.5°	4.9
80°	4.3
82.5°	3.7
85°	3.7
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)