

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: P840008

Luminaire Tested: **LDS4C40D010 EU4409030 4LBPSMB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P840008
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 EU4409030 4LBPSMB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

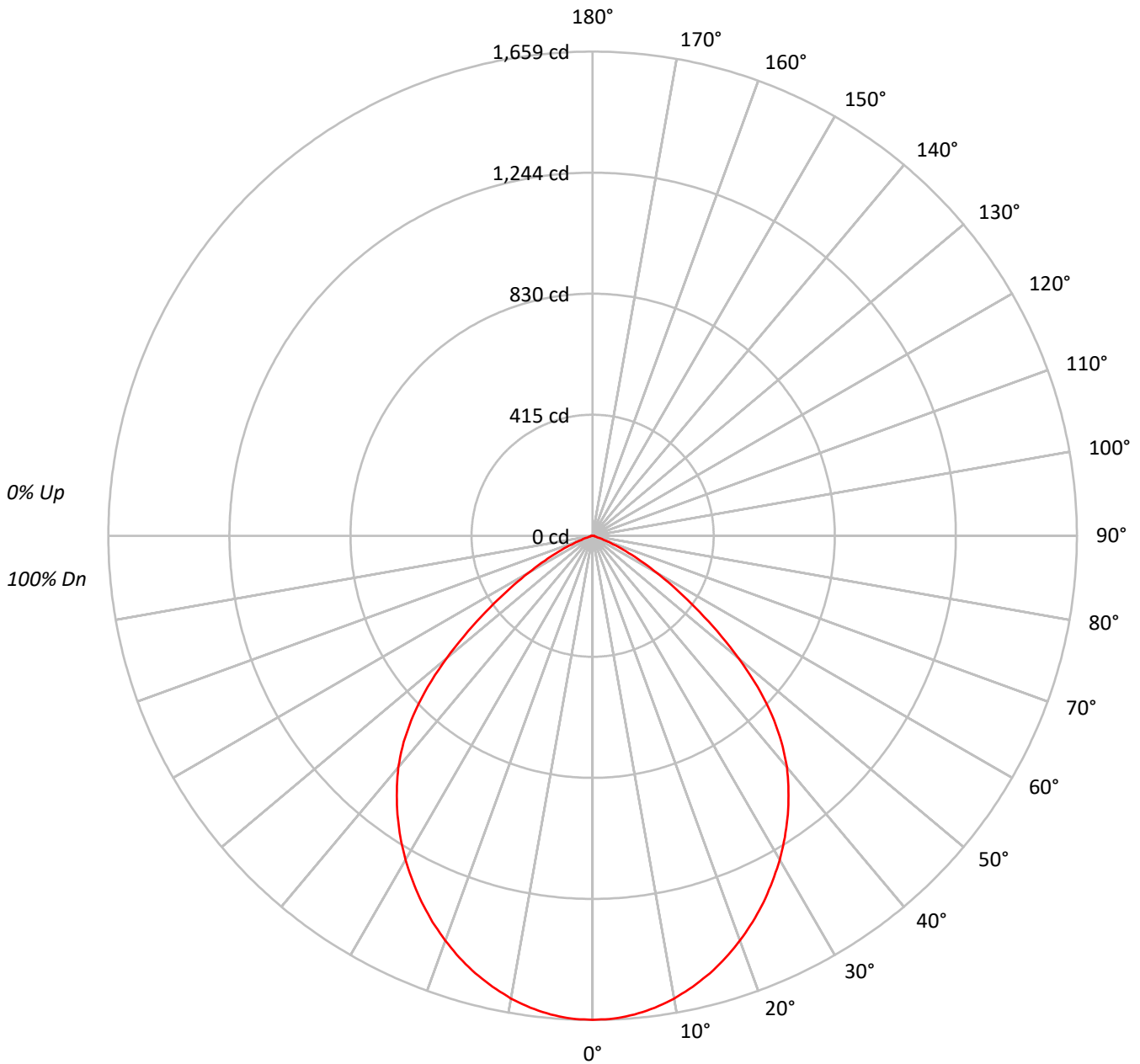
Lumens per Lamp: N/A
Luminaire Lumens: 3158.9 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	203777
5°	203088
10°	200858
15°	197395
20°	192969
25°	187810
30°	181906
35°	174887
40°	166067
45°	150998
50°	124652
55°	91801
60°	62287
65°	36482
70°	14404
75°	3228
80°	4245
85°	7189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	4.9
10°-20°	437.0	13.8
20°-30°	637.4	20.2
30°-40°	727.6	23.0
40°-50°	661.5	20.9
50°-60°	390.1	12.4
60°-70°	130.8	4.1
70°-80°	13.7	0.4
80°-90°	4.8	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°	1230.5	39.0
0°-40°	1958.1	62.0
0°-60°	3009.7	95.3
0°-90°	3158.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1659	
5°	1647	156
15°	1552	437
25°	1386	637
35°	1166	728
45°	869	661
55°	429	390
65°	126	131
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1658.7
2.5°	1656.2
5°	1646.8
7.5°	1631.4
10°	1610.1
12.5°	1582.8
15°	1552.0
17.5°	1516.2
20°	1476.0
22.5°	1432.5
25°	1385.5
27.5°	1334.3
30°	1282.3
32.5°	1225.1
35°	1166.1
37.5°	1102.1
40°	1035.5
42.5°	957.8
45°	869.1
47.5°	766.6
50°	652.2
52.5°	537.8
55°	428.6
57.5°	335.5
60°	253.5
62.5°	183.5
65°	125.5
67.5°	76.8
70°	40.1
72.5°	15.4
75°	6.8
77.5°	6.8
80°	6.0
82.5°	5.1
85°	5.1
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)