

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: P839417

Luminaire Tested: **LD4C90D010 EU4909027 4LBSH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P839417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C90D010 EU4909027 4LBSH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

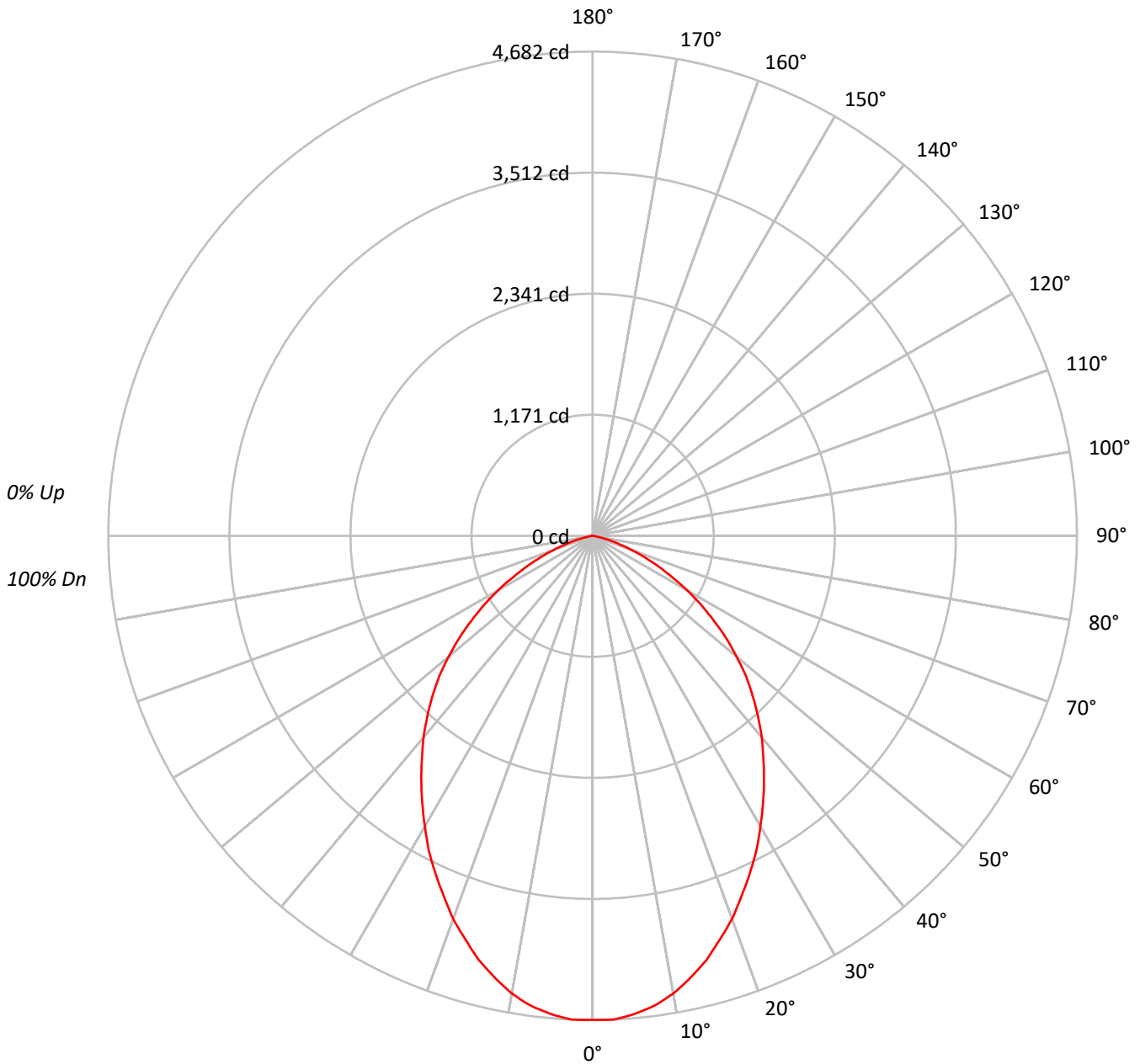
Lumens per Lamp: N/A
Luminaire Lumens: 8953.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			77
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			67
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			51
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	575249
5°	572575
10°	560758
15°	540381
20°	515500
25°	487723
30°	460063
35°	433177
40°	407863
45°	380198
50°	346684
55°	306161
60°	259172
65°	203458
70°	145224
75°	79555
80°	14008
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	4.9
10°-20°	1192.1	13.3
20°-30°	1655.5	18.5
30°-40°	1806.6	20.2
40°-50°	1685.2	18.8
50°-60°	1279.1	14.3
60°-70°	700.4	7.8
70°-80°	192.7	2.2
80°-90°	2.7	0.0
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°	3286.2	36.7
0°-40°	5092.8	56.9
0°-60°	8057.2	90.0
0°-90°	8953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8953.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4682	
5°	4643	439
15°	4249	1192
25°	3598	1656
35°	2888	1807
45°	2188	1685
55°	1429	1279
65°	700	700
75°	168	193
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4682.4
2.5°	4682.4
5°	4642.9
7.5°	4584.0
10°	4495.1
12.5°	4376.9
15°	4248.7
17.5°	4091.1
20°	3943.0
22.5°	3765.6
25°	3598.0
27.5°	3430.6
30°	3243.1
32.5°	3065.7
35°	2888.3
37.5°	2710.8
40°	2543.2
42.5°	2365.8
45°	2188.3
47.5°	2010.9
50°	1813.9
52.5°	1626.5
55°	1429.4
57.5°	1242.0
60°	1054.8
62.5°	867.6
65°	699.9
67.5°	542.1
70°	404.3
72.5°	276.0
75°	167.6
77.5°	78.8
80°	19.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)