

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: P839423

Luminaire Tested: **LD4C90D010 EU4909035 4LBSH**

Issue Date: 2/14/2022

Test Information

Test Method: LM-79-08
Report Number: P839423
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 EU4909035 4LBSH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

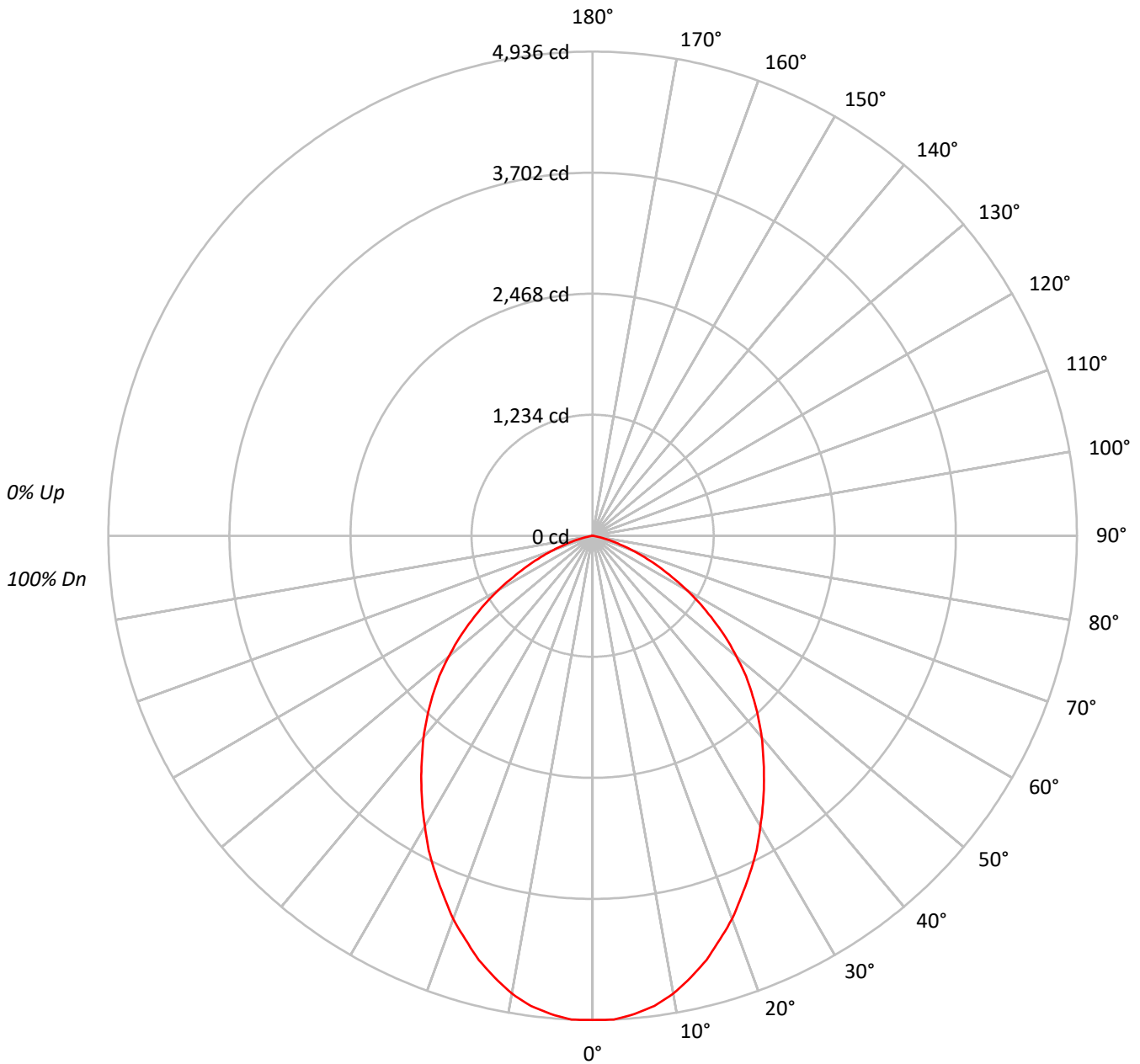
Lumens per Lamp: N/A
Luminaire Lumens: 9439.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	606466
5°	603665
10°	591197
15°	569710
20°	543491
25°	514196
30°	485044
35°	456678
40°	430010
45°	400838
50°	365510
55°	322782
60°	273226
65°	214505
70°	153091
75°	83874
80°	14786
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.4	4.9
10°-20°	1256.8	13.3
20°-30°	1745.4	18.5
30°-40°	1904.6	20.2
40°-50°	1776.7	18.8
50°-60°	1348.6	14.3
60°-70°	738.4	7.8
70°-80°	203.2	2.2
80°-90°	2.8	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°	3464.6	36.7
0°-40°	5369.2	56.9
0°-60°	8494.5	90.0
0°-90°	9439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9439.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4936	
5°	4895	462
15°	4479	1257
25°	3793	1745
35°	3045	1905
45°	2307	1777
55°	1507	1349
65°	738	738
75°	177	203
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4936.5
2.5°	4936.5
5°	4895.0
7.5°	4832.8
10°	4739.1
12.5°	4614.5
15°	4479.3
17.5°	4313.2
20°	4157.1
22.5°	3970.0
25°	3793.3
27.5°	3616.8
30°	3419.2
32.5°	3232.1
35°	3045.0
37.5°	2858.0
40°	2681.3
42.5°	2494.2
45°	2307.1
47.5°	2120.1
50°	1912.4
52.5°	1714.7
55°	1507.0
57.5°	1309.4
60°	1112.0
62.5°	914.6
65°	737.9
67.5°	571.5
70°	426.2
72.5°	291.0
75°	176.7
77.5°	83.1
80°	20.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)