

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: P839426

Luminaire Tested: **LD4C90D010 EU4909040 4LBSH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839426  
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 EU4909040 4LBSH  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

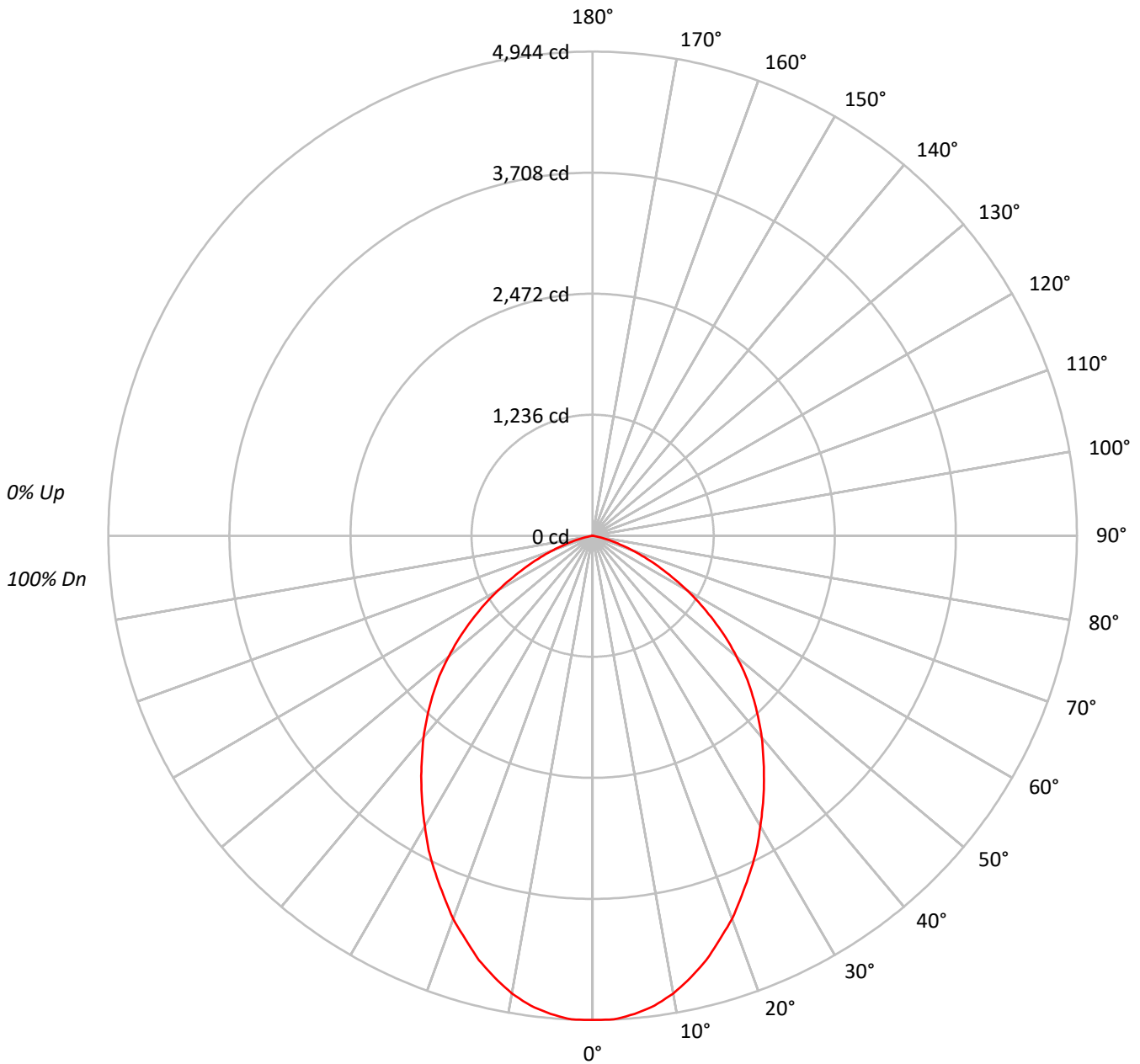
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9453.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 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<sub>in</sub>): 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									
RC	80									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°	607363
5°	604553
10°	592082
15°	570562
20°	544288
25°	514955
30°	485753
35°	457368
40°	430636
45°	401446
50°	366045
55°	323275
60°	273644
65°	214824
70°	153342
75°	84016
80°	14786
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.1	4.9
10°-20°	1258.7	13.3
20°-30°	1748.0	18.5
30°-40°	1907.4	20.2
40°-50°	1779.4	18.8
50°-60°	1350.6	14.3
60°-70°	739.5	7.8
70°-80°	203.5	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°	3469.7	36.7
0°-40°	5377.2	56.9
0°-60°	8507.1	90.0
0°-90°	9453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4944	
5°	4902	463
15°	4486	1259
25°	3799	1748
35°	3050	1907
45°	2311	1779
55°	1509	1351
65°	739	740
75°	177	204
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4943.8
2.5°	4943.8
5°	4902.2
7.5°	4840.0
10°	4746.2
12.5°	4621.4
15°	4486.0
17.5°	4319.6
20°	4163.2
22.5°	3975.9
25°	3798.9
27.5°	3622.2
30°	3424.2
32.5°	3236.9
35°	3049.6
37.5°	2862.2
40°	2685.2
42.5°	2497.9
45°	2310.6
47.5°	2123.2
50°	1915.2
52.5°	1717.3
55°	1509.3
57.5°	1311.4
60°	1113.7
62.5°	916.0
65°	739.0
67.5°	572.3
70°	426.9
72.5°	291.5
75°	177.0
77.5°	83.2
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)