

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: P840012

Luminaire Tested: **LDS4C40D010 EU4409030 4LBSH**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P840012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C40D010 EU4409030 4LBSH  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

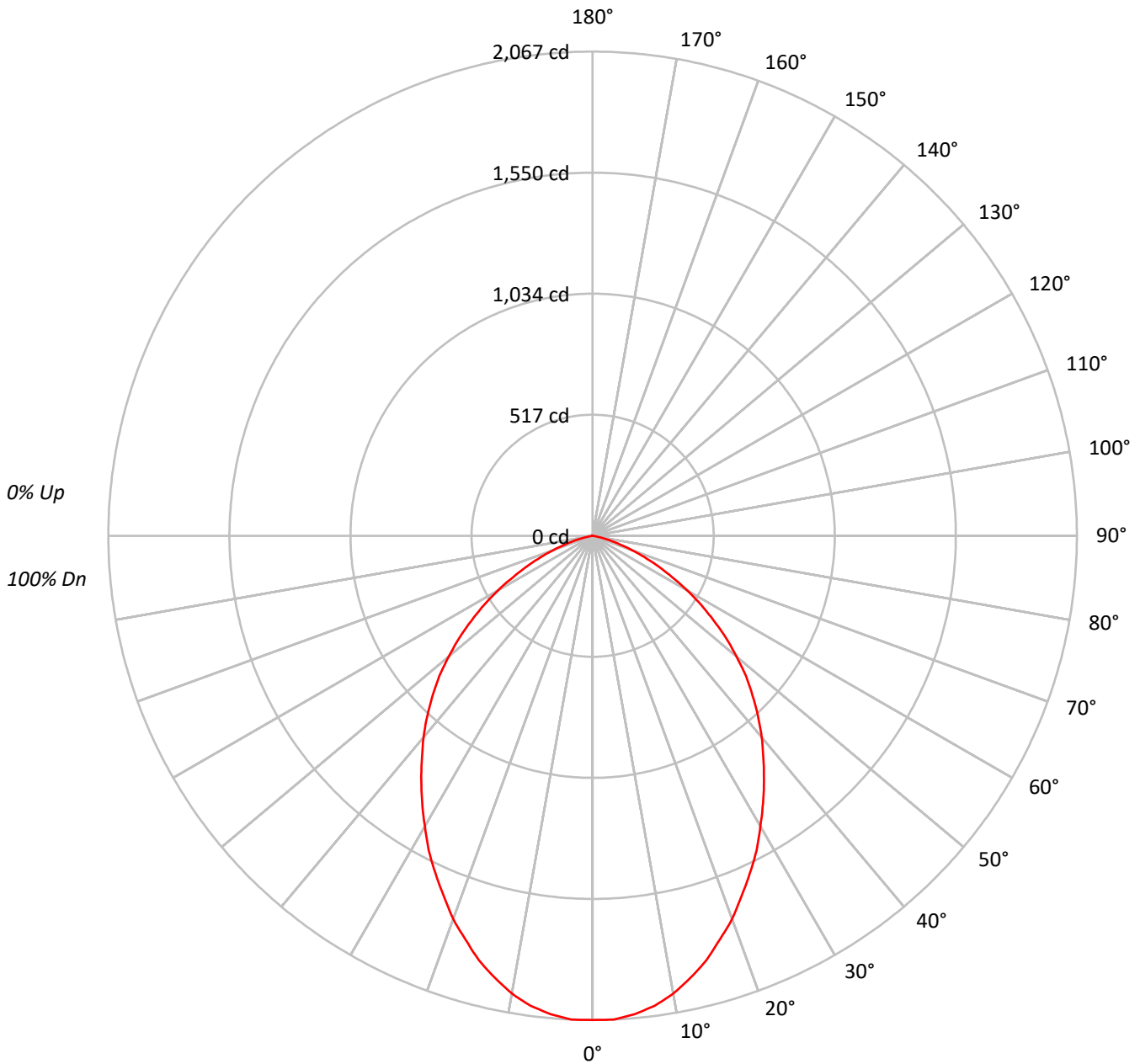
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3953.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 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): 47  
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				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°	253987
5°	252812
10°	247589
15°	238591
20°	227615
25°	215341
30°	203128
35°	191250
40°	180084
45°	167869
50°	153073
55°	135174
60°	114426
65°	89825
70°	64117
75°	35126
80°	6226
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.6	4.9
10°-20°	526.3	13.3
20°-30°	731.0	18.5
30°-40°	797.6	20.2
40°-50°	744.1	18.8
50°-60°	564.8	14.3
60°-70°	309.2	7.8
70°-80°	85.1	2.2
80°-90°	1.2	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°	1450.9	36.7
0°-40°	2248.6	56.9
0°-60°	3557.4	90.0
0°-90°	3953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3953.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2067	
5°	2050	194
15°	1876	526
25°	1589	731
35°	1275	798
45°	966	744
55°	631	565
65°	309	309
75°	74	85
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2067.4
2.5°	2067.4
5°	2050.0
7.5°	2023.9
10°	1984.7
12.5°	1932.5
15°	1875.9
17.5°	1806.3
20°	1741.0
22.5°	1662.6
25°	1588.6
27.5°	1514.7
30°	1431.9
32.5°	1353.6
35°	1275.2
37.5°	1196.9
40°	1122.9
42.5°	1044.6
45°	966.2
47.5°	887.9
50°	800.9
52.5°	718.1
55°	631.1
57.5°	548.4
60°	465.7
62.5°	383.0
65°	309.0
67.5°	239.3
70°	178.5
72.5°	121.9
75°	74.0
77.5°	34.8
80°	8.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)