

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: P839402

Luminaire Tested: **LD4C80D010 EU4809027 4LBSH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839402  
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: LD4C80D010 EU4809027 4LBSH  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

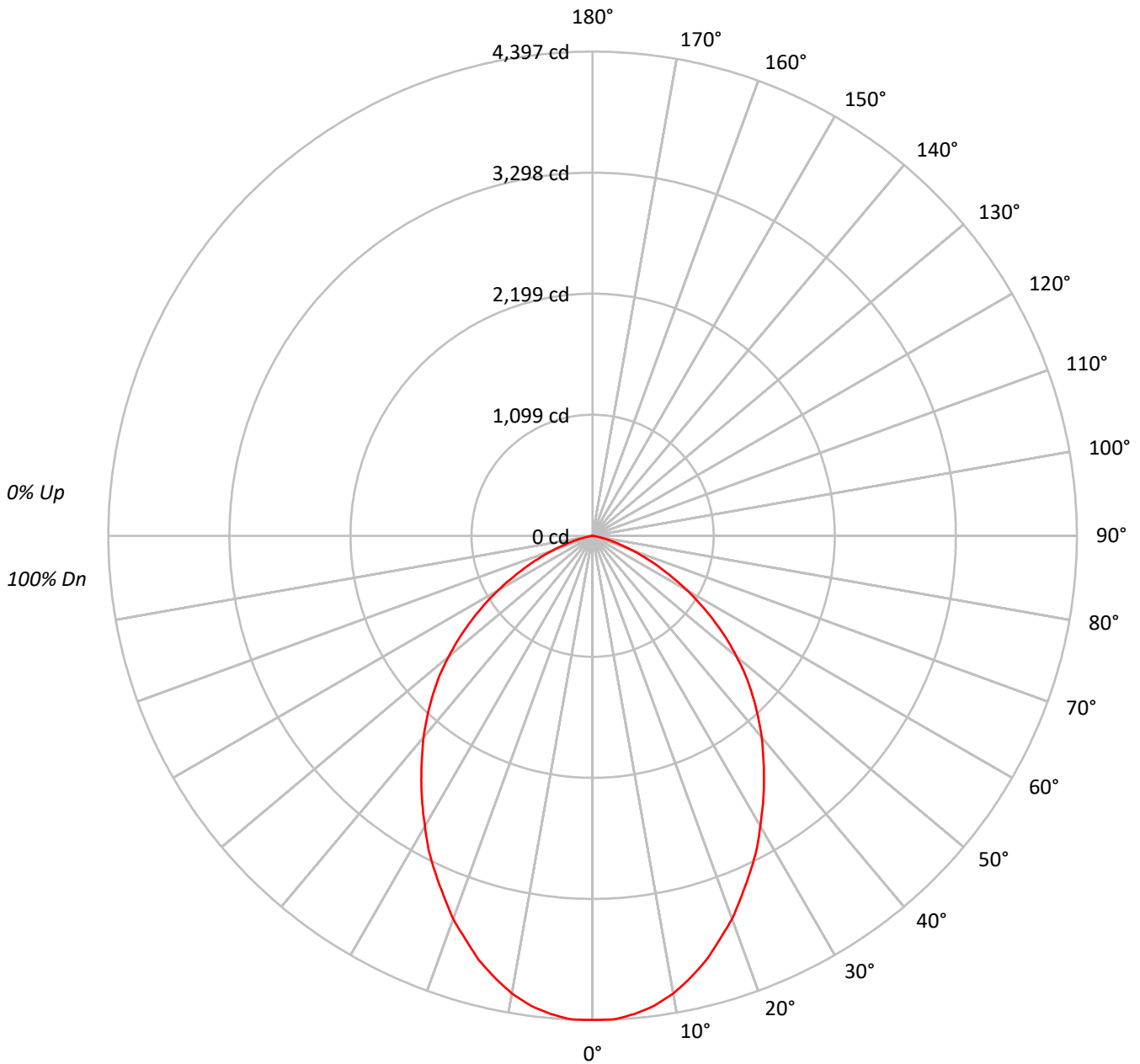
Lumens per Lamp: N/A  
Luminaire Lumens: 8407.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
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°	540162
5°	537663
10°	526564
15°	507426
20°	484070
25°	457969
30°	432003
35°	406751
40°	382989
45°	357020
50°	325545
55°	287505
60°	243348
65°	191045
70°	136352
75°	74713
80°	13159
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.8	4.9
10°-20°	1119.4	13.3
20°-30°	1554.6	18.5
30°-40°	1696.4	20.2
40°-50°	1582.5	18.8
50°-60°	1201.1	14.3
60°-70°	657.7	7.8
70°-80°	181.0	2.2
80°-90°	2.5	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°	3085.8	36.7
0°-40°	4782.2	56.9
0°-60°	7565.8	90.0
0°-90°	8407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4397	
5°	4360	412
15°	3990	1119
25°	3378	1555
35°	2712	1696
45°	2055	1582
55°	1342	1201
65°	657	658
75°	157	181
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4396.8
2.5°	4396.8
5°	4359.8
7.5°	4304.4
10°	4221.0
12.5°	4110.0
15°	3989.6
17.5°	3841.6
20°	3702.6
22.5°	3536.0
25°	3378.5
27.5°	3221.4
30°	3045.3
32.5°	2878.7
35°	2712.1
37.5°	2545.5
40°	2388.1
42.5°	2221.5
45°	2054.9
47.5°	1888.3
50°	1703.3
52.5°	1527.3
55°	1342.3
57.5°	1166.2
60°	990.4
62.5°	814.6
65°	657.2
67.5°	509.0
70°	379.6
72.5°	259.2
75°	157.4
77.5°	74.0
80°	18.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)