

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: P840450

Luminaire Tested: **LDS4C80D010 EU4809030 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P840450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C80D010 EU4809030 4LBPSSQMB  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

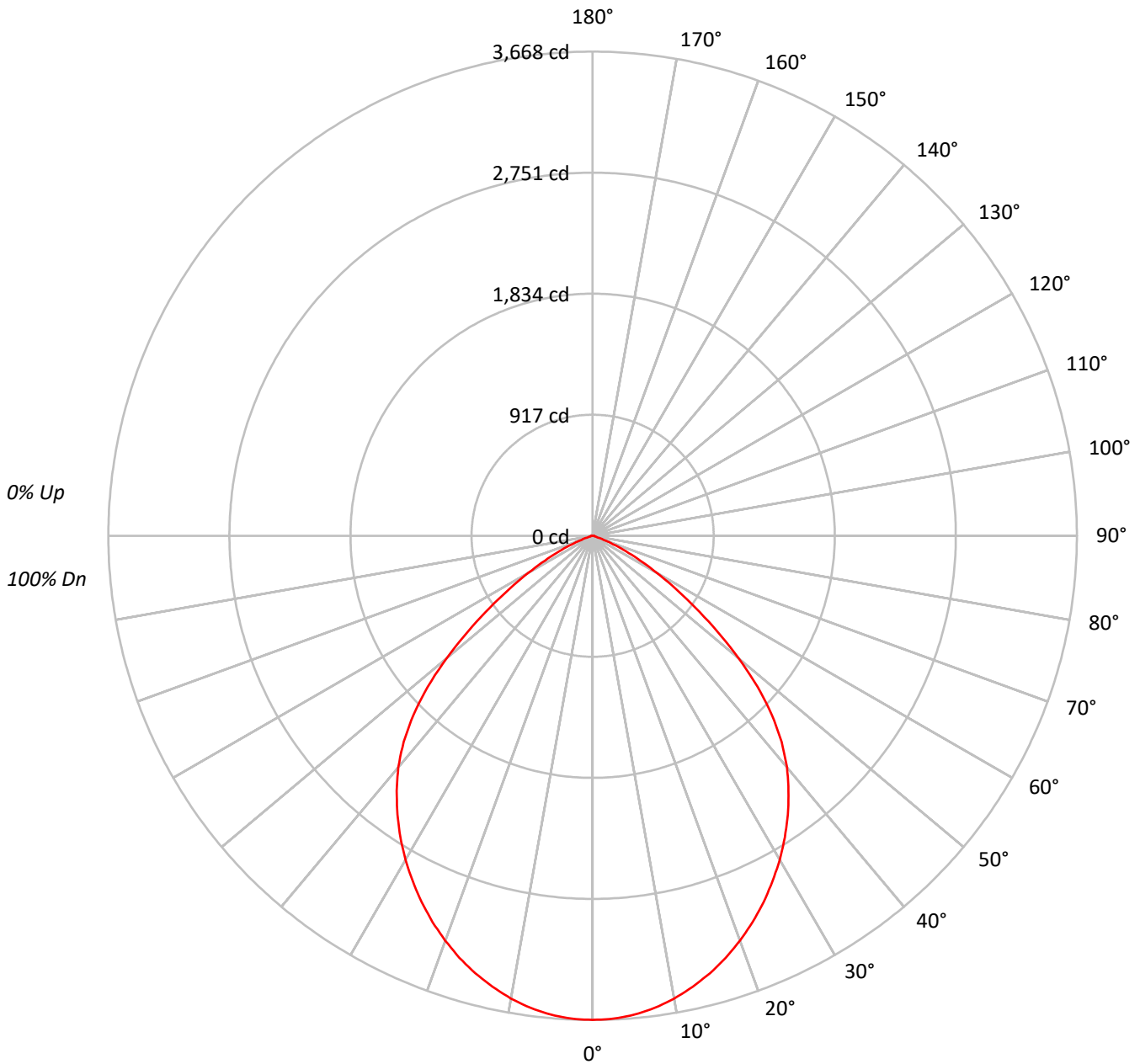
Lumens per Lamp: N/A  
Luminaire Lumens: 6984.9 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
Input Voltage (V):  
Input Current (Ain): 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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	353892
5°	352687
10°	348809
15°	342802
20°	335121
25°	326162
30°	315886
35°	303725
40°	288404
45°	262214
50°	216489
55°	159408
60°	108183
65°	63357
70°	25024
75°	5629
80°	7335
85°	12510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.0	4.9
10°-20°	966.3	13.8
20°-30°	1409.5	20.2
30°-40°	1608.8	23.0
40°-50°	1462.6	20.9
50°-60°	862.6	12.3
60°-70°	289.3	4.1
70°-80°	30.2	0.4
80°-90°	10.5	0.2
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°	2720.8	39.0
0°-40°	4329.6	62.0
0°-60°	6654.9	95.3
0°-90°	6984.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6984.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3668	
5°	3641	345
15°	3432	966
25°	3064	1409
35°	2578	1609
45°	1922	1463
55°	948	863
65°	278	289
75°	15	30
85°	11	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3667.7
2.5°	3662.0
5°	3641.3
7.5°	3607.3
10°	3560.1
12.5°	3499.7
15°	3431.7
17.5°	3352.5
20°	3263.7
22.5°	3167.5
25°	3063.6
27.5°	2950.4
30°	2835.2
32.5°	2708.8
35°	2578.5
37.5°	2436.9
40°	2289.7
42.5°	2117.9
45°	1921.6
47.5°	1695.1
50°	1442.2
52.5°	1189.2
55°	947.6
57.5°	741.8
60°	560.6
62.5°	405.8
65°	277.5
67.5°	169.9
70°	88.7
72.5°	34.0
75°	15.1
77.5°	15.1
80°	13.2
82.5°	11.3
85°	11.3
87.5°	9.4
90°	0.0



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— 0°-180°







(END OF REPORT)