

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: P840296

Luminaire Tested: **LDS4C08D010 EU4089050 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: P840296
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: LDS4C08D010 EU4089050 4LBPSSQMB
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

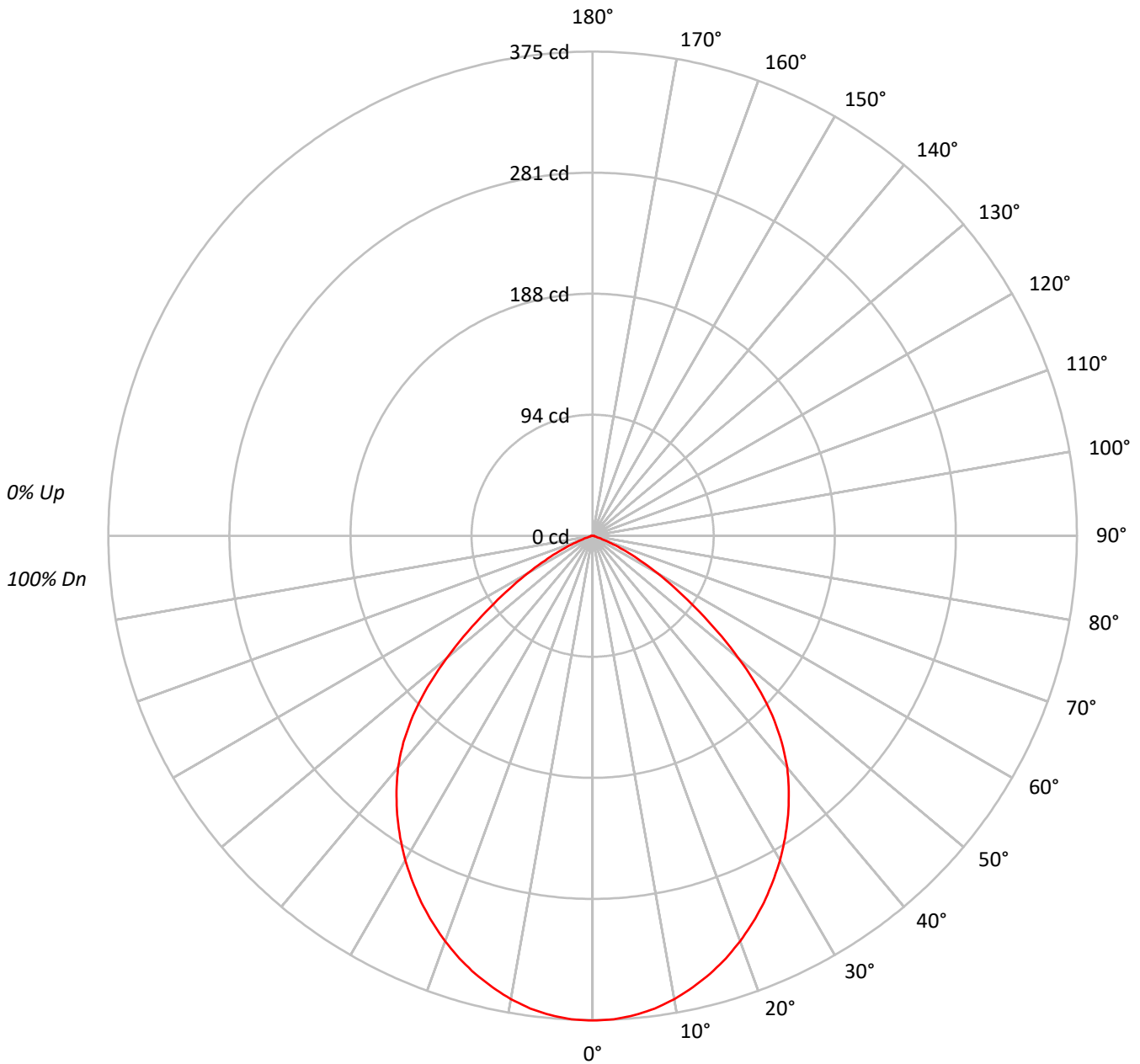
Lumens per Lamp: N/A
Luminaire Lumens: 715.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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	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°	36222
5°	36099
10°	35703
15°	35092
20°	34306
25°	33387
30°	32333
35°	31085
40°	29524
45°	26841
50°	22156
55°	16318
60°	11077
65°	6484
70°	2567
75°	559
80°	778
85°	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	4.9
10°-20°	98.9	13.8
20°-30°	144.3	20.2
30°-40°	164.7	23.0
40°-50°	149.7	20.9
50°-60°	88.3	12.3
60°-70°	29.6	4.1
70°-80°	3.1	0.4
80°-90°	1.1	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°	278.5	39.0
0°-40°	443.2	62.0
0°-60°	681.2	95.3
0°-90°	715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	375	
5°	373	35
15°	351	99
25°	314	144
35°	264	165
45°	197	150
55°	97	88
65°	28	30
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	375.4
2.5°	374.9
5°	372.7
7.5°	369.3
10°	364.4
12.5°	358.2
15°	351.3
17.5°	343.2
20°	334.1
22.5°	324.2
25°	313.6
27.5°	302.0
30°	290.2
32.5°	277.3
35°	263.9
37.5°	249.5
40°	234.4
42.5°	216.8
45°	196.7
47.5°	173.5
50°	147.6
52.5°	121.7
55°	97.0
57.5°	75.9
60°	57.4
62.5°	41.5
65°	28.4
67.5°	17.4
70°	9.1
72.5°	3.5
75°	1.5
77.5°	1.5
80°	1.4
82.5°	1.2
85°	1.2
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)