

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: P840331

Luminaire Tested: **LDS4C20D010 EU4209030 4LBPSSQMMS**

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: P840331
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: LDS4C20D010 EU4209030 4LBPSSQMMS
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

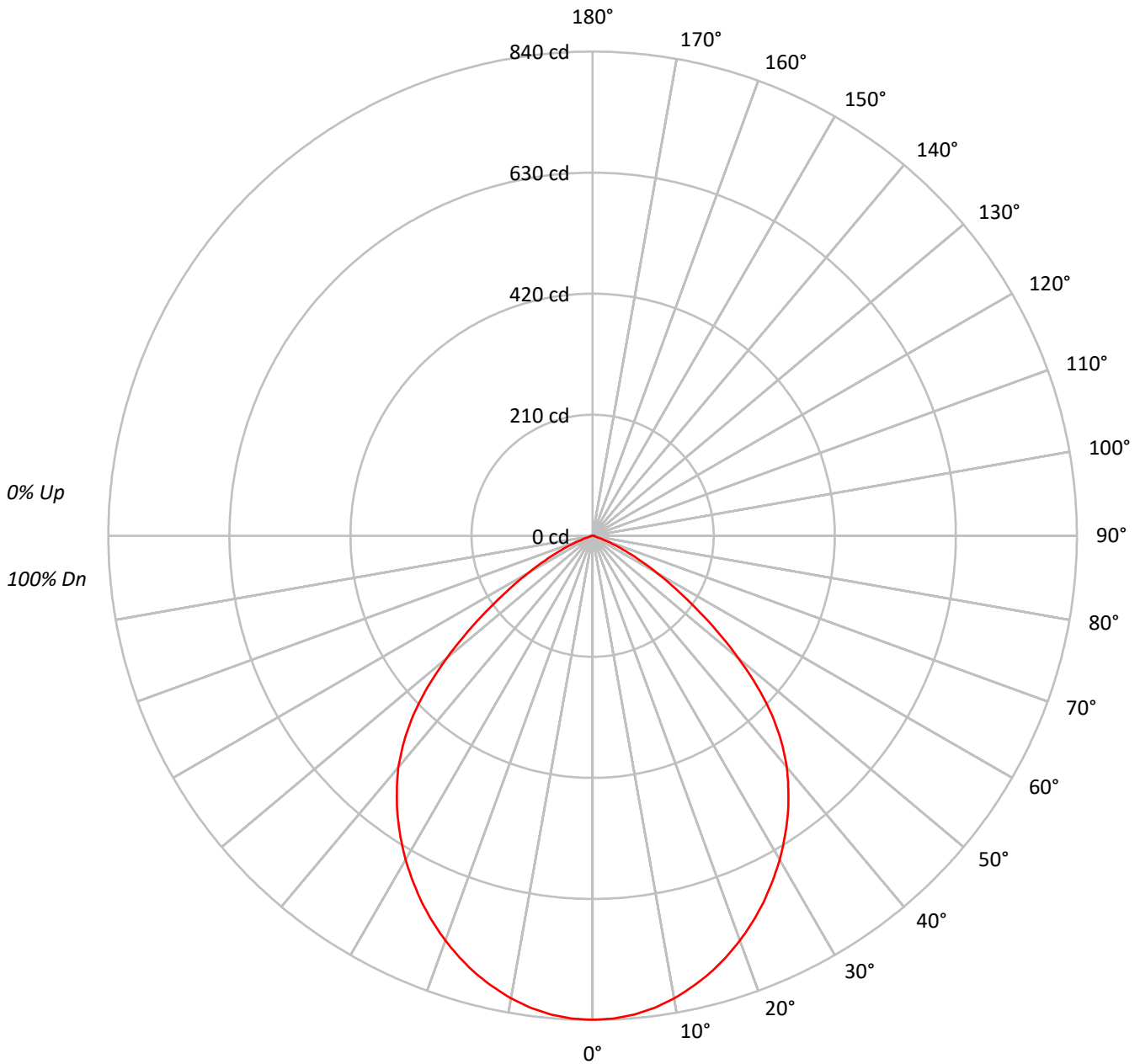
Lumens per Lamp: N/A
Luminaire Lumens: 1599.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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°	81012
5°	80740
10°	79852
15°	78476
20°	76713
25°	74663
30°	72309
35°	69532
40°	66027
45°	60027
50°	49551
55°	36488
60°	24759
65°	14498
70°	5727
75°	1305
80°	1667
85°	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	4.9
10°-20°	221.2	13.8
20°-30°	322.7	20.2
30°-40°	368.3	23.0
40°-50°	334.8	20.9
50°-60°	197.4	12.3
60°-70°	66.2	4.1
70°-80°	6.9	0.4
80°-90°	2.4	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°	622.8	39.0
0°-40°	991.1	62.0
0°-60°	1523.4	95.3
0°-90°	1599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1599.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	840	
5°	834	79
15°	786	221
25°	701	323
35°	590	368
45°	440	335
55°	217	197
65°	64	66
75°	4	7
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	839.6
2.5°	838.3
5°	833.6
7.5°	825.8
10°	815.0
12.5°	801.1
15°	785.6
17.5°	767.4
20°	747.1
22.5°	725.1
25°	701.3
27.5°	675.4
30°	649.0
32.5°	620.1
35°	590.3
37.5°	557.9
40°	524.2
42.5°	484.8
45°	439.9
47.5°	388.0
50°	330.1
52.5°	272.2
55°	216.9
57.5°	169.8
60°	128.3
62.5°	92.9
65°	63.5
67.5°	38.9
70°	20.3
72.5°	7.8
75°	3.5
77.5°	3.5
80°	3.0
82.5°	2.6
85°	2.6
87.5°	2.2
90°	0.0



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— 0°-180°







(END OF REPORT)