

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: P839805

Luminaire Tested: **LDS4C20D010 EU4209027 4LBSWMH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839805
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: LDS4C20D010 EU4209027 4LBSWMH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

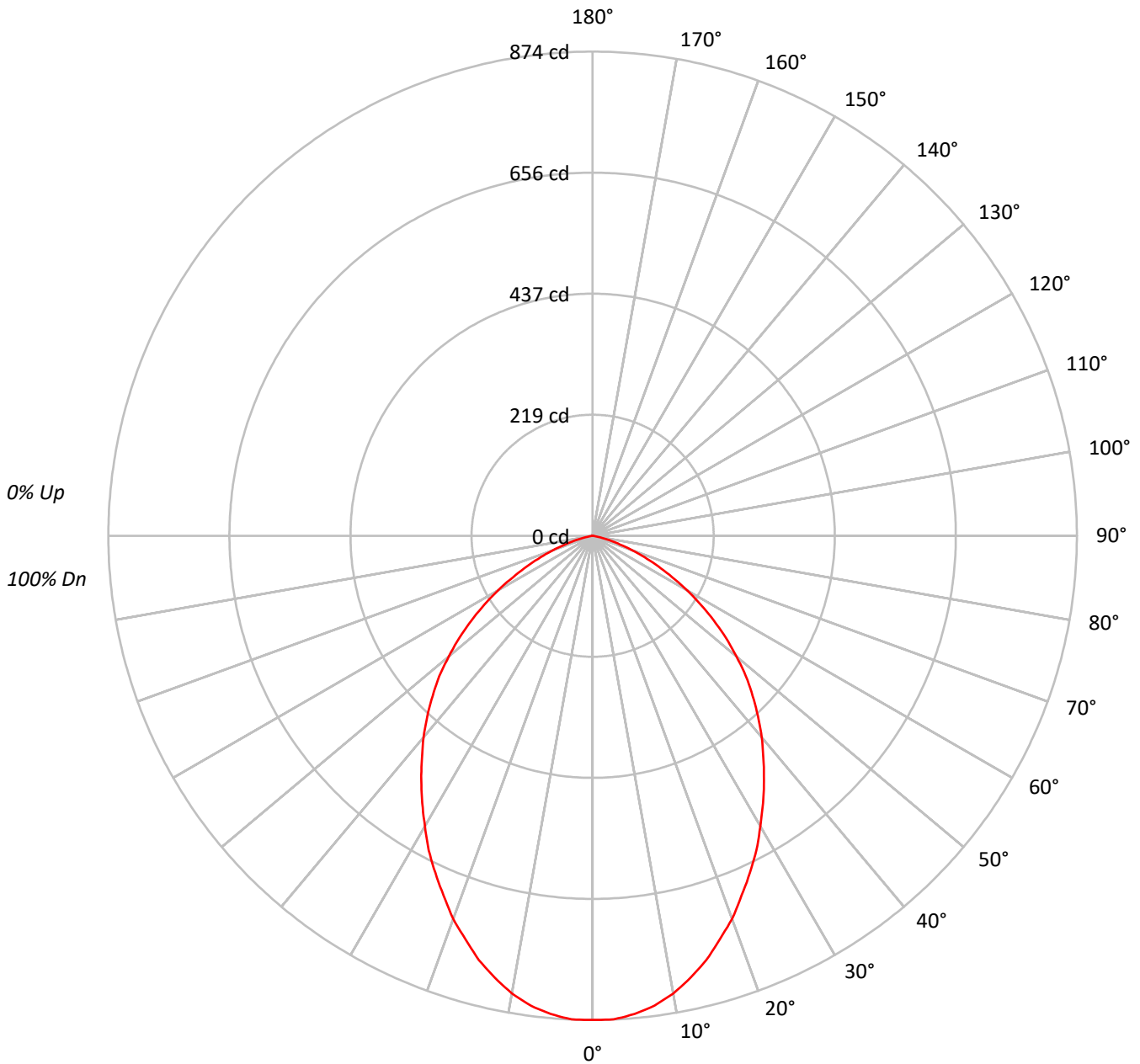
Lumens per Lamp: N/A
Luminaire Lumens: 1671.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	107362
5°	106872
10°	104664
15°	100860
20°	96210
25°	91024
30°	85867
35°	80852
40°	76129
45°	70956
50°	64696
55°	57145
60°	48380
65°	37965
70°	27120
75°	14857
80°	2618
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	4.9
10°-20°	222.5	13.3
20°-30°	309.0	18.5
30°-40°	337.2	20.2
40°-50°	314.5	18.8
50°-60°	238.7	14.3
60°-70°	130.7	7.8
70°-80°	36.0	2.2
80°-90°	0.5	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°	613.3	36.7
0°-40°	950.5	56.9
0°-60°	1503.8	90.0
0°-90°	1671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	874	
5°	867	82
15°	793	222
25°	672	309
35°	539	337
45°	408	315
55°	267	239
65°	131	131
75°	31	36
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	873.9
2.5°	873.9
5°	866.6
7.5°	855.6
10°	839.0
12.5°	816.9
15°	793.0
17.5°	763.6
20°	735.9
22.5°	702.8
25°	671.5
27.5°	640.3
30°	605.3
32.5°	572.2
35°	539.1
37.5°	506.0
40°	474.7
42.5°	441.6
45°	408.4
47.5°	375.3
50°	338.5
52.5°	303.6
55°	266.8
57.5°	231.8
60°	196.9
62.5°	161.9
65°	130.6
67.5°	101.2
70°	75.5
72.5°	51.5
75°	31.3
77.5°	14.7
80°	3.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)