

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: P839801

Luminaire Tested: **LDS4C20D010 EU4209027 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839801
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 EU4209027 4LBSGPH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

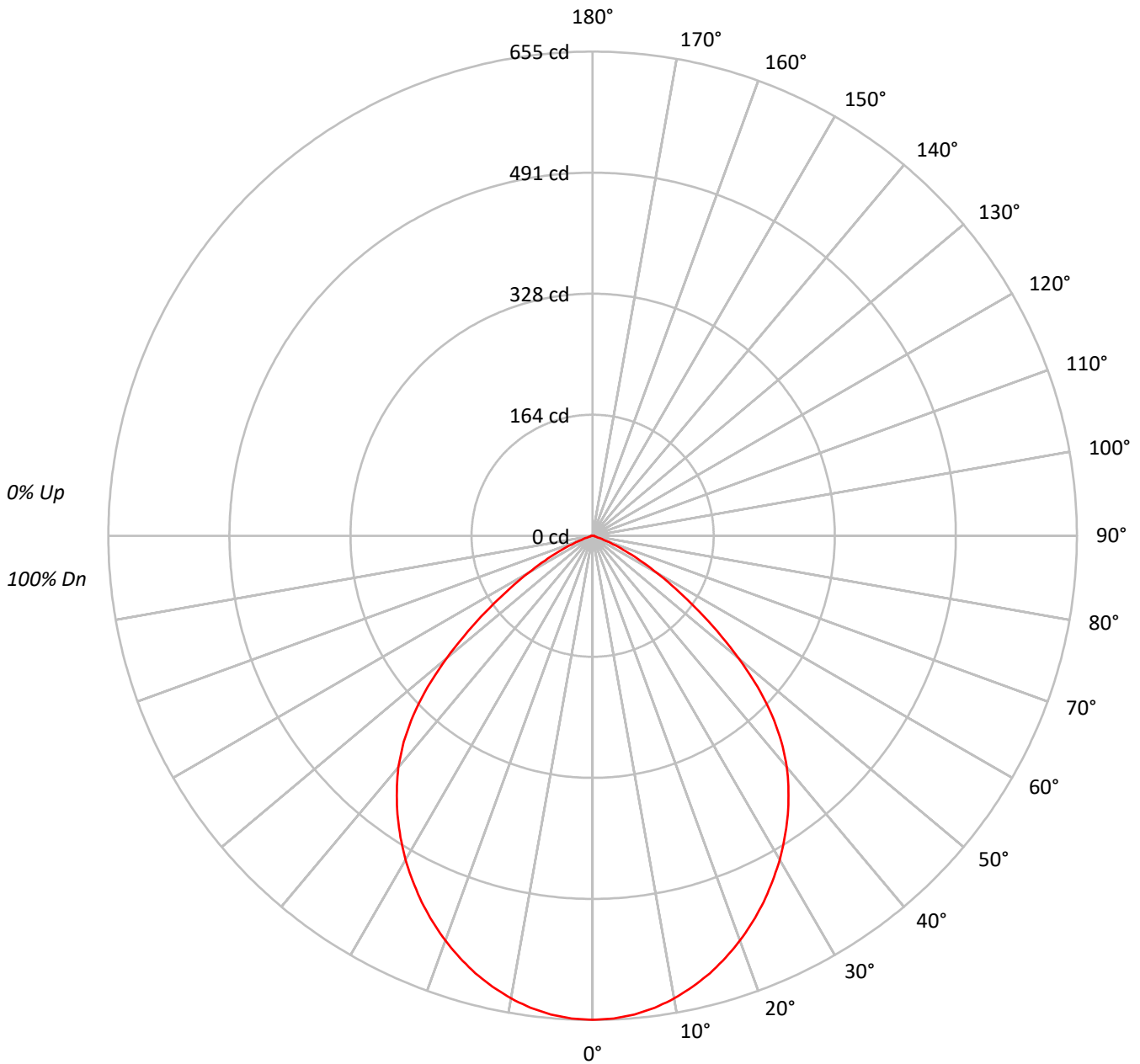
Lumens per Lamp: N/A
Luminaire Lumens: 1247.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	80444
5°	80172
10°	79290
15°	77928
20°	76181
25°	74134
30°	71809
35°	69034
40°	65561
45°	59611
50°	49215
55°	36241
60°	24595
65°	14389
70°	5675
75°	1282
80°	1698
85°	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	4.9
10°-20°	172.5	13.8
20°-30°	251.6	20.2
30°-40°	287.2	23.0
40°-50°	261.1	20.9
50°-60°	154.0	12.3
60°-70°	51.6	4.1
70°-80°	5.4	0.4
80°-90°	1.9	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°	485.7	39.0
0°-40°	773.0	62.0
0°-60°	1188.1	95.3
0°-90°	1247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	655	
5°	650	62
15°	613	173
25°	547	252
35°	460	287
45°	343	261
55°	169	154
65°	50	52
75°	3	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	654.8
2.5°	653.8
5°	650.1
7.5°	644.0
10°	635.6
12.5°	624.8
15°	612.7
17.5°	598.5
20°	582.7
22.5°	565.5
25°	546.9
27.5°	526.7
30°	506.2
32.5°	483.6
35°	460.3
37.5°	435.1
40°	408.8
42.5°	378.1
45°	343.1
47.5°	302.6
50°	257.5
52.5°	212.3
55°	169.2
57.5°	132.4
60°	100.1
62.5°	72.5
65°	49.5
67.5°	30.3
70°	15.8
72.5°	6.1
75°	2.7
77.5°	2.7
80°	2.4
82.5°	2.0
85°	2.0
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)