

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: P839831

Luminaire Tested: **LDS4C20D010 EU4209040 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839831
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 EU4209040 4LBSGPH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

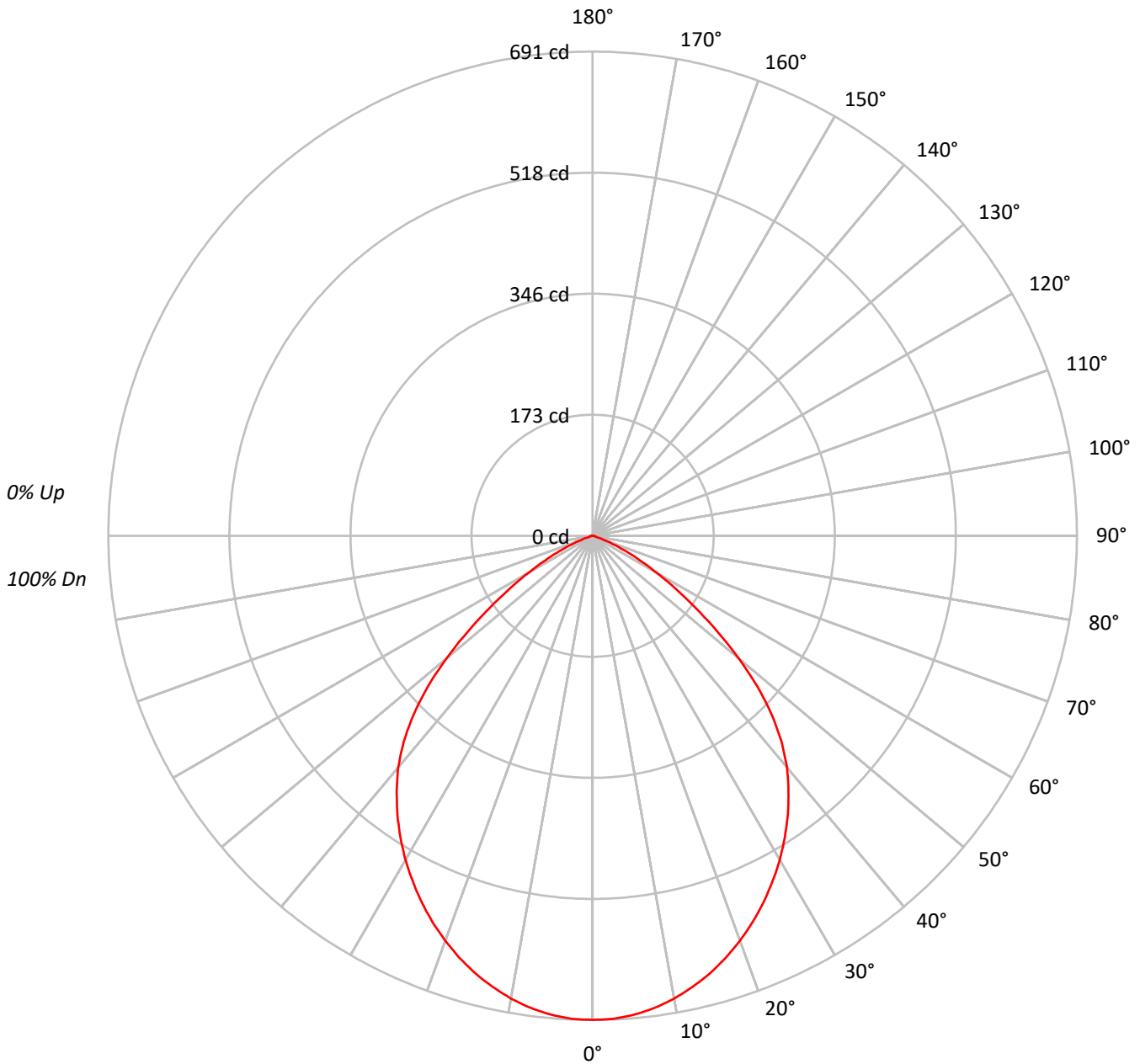
Lumens per Lamp: N/A
Luminaire Lumens: 1316.0 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	66	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°	84892
5°	84599
10°	83669
15°	82239
20°	80391
25°	78242
30°	75781
35°	72859
40°	69185
45°	62894
50°	51929
55°	38233
60°	25947
65°	15203
70°	5999
75°	1329
80°	1769
85°	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	4.9
10°-20°	182.1	13.8
20°-30°	265.6	20.2
30°-40°	303.1	23.0
40°-50°	275.6	20.9
50°-60°	162.5	12.4
60°-70°	54.5	4.1
70°-80°	5.7	0.4
80°-90°	2.0	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°	512.6	39.0
0°-40°	815.7	62.0
0°-60°	1253.8	95.3
0°-90°	1316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1316.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	691	
5°	686	65
15°	647	182
25°	577	266
35°	486	303
45°	362	276
55°	178	163
65°	52	55
75°	3	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	691.0
2.5°	689.9
5°	686.0
7.5°	679.6
10°	670.7
12.5°	659.4
15°	646.6
17.5°	631.6
20°	614.9
22.5°	596.8
25°	577.2
27.5°	555.9
30°	534.2
32.5°	510.3
35°	485.8
37.5°	459.1
40°	431.4
42.5°	399.0
45°	362.0
47.5°	319.4
50°	271.7
52.5°	224.1
55°	178.5
57.5°	139.8
60°	105.6
62.5°	76.5
65°	52.3
67.5°	32.0
70°	16.7
72.5°	6.4
75°	2.8
77.5°	2.8
80°	2.5
82.5°	2.1
85°	2.1
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)