

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: P839834

Luminaire Tested: **LDS4C20D010 EU4209040 4LBSWH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839834
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 EU4209040 4LBSWH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

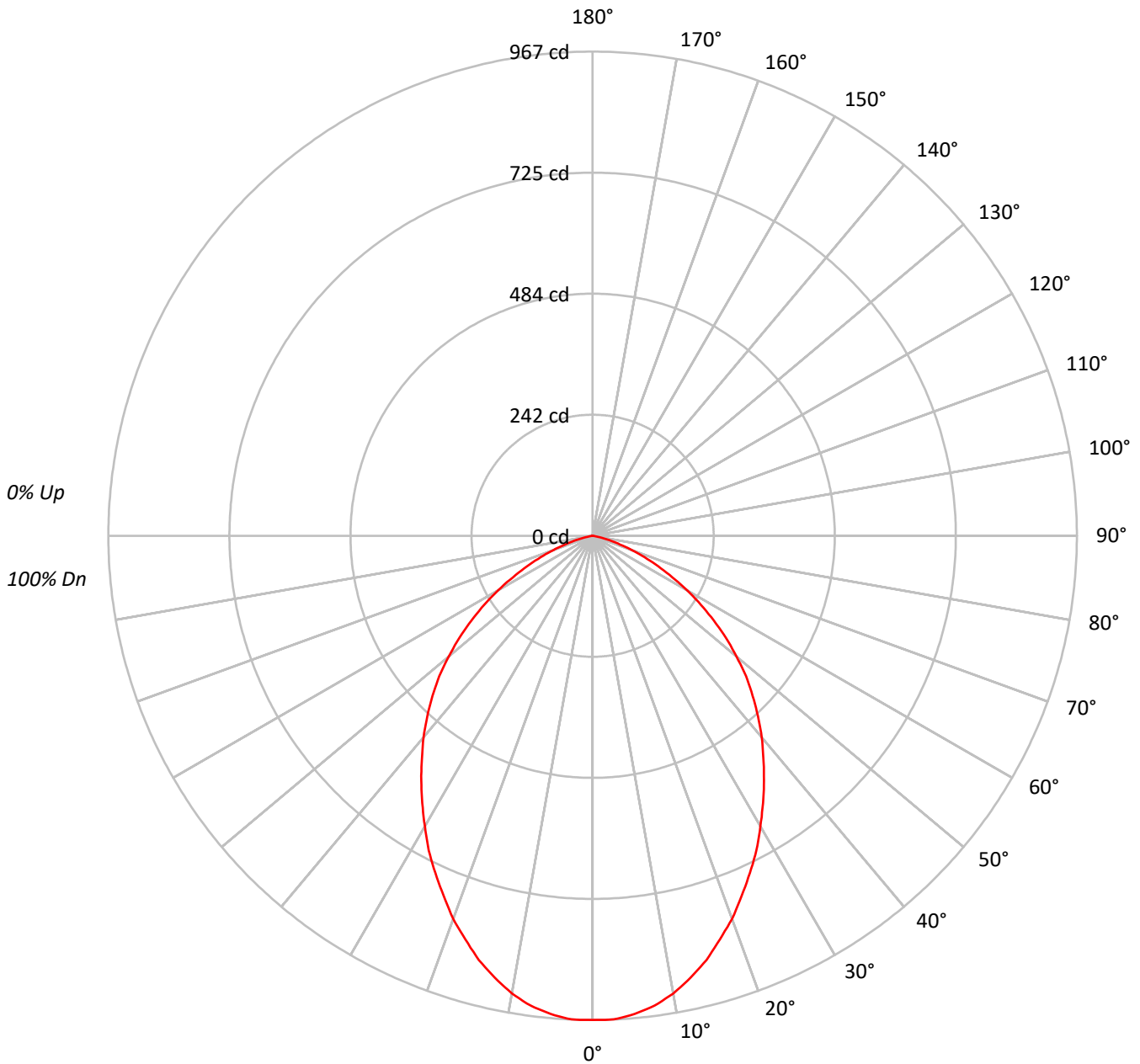
Lumens per Lamp: N/A
Luminaire Lumens: 1849.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
RC	80									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°	118799
5°	118254
10°	115804
15°	111607
20°	106460
25°	100730
30°	95017
35°	89461
40°	84228
45°	78514
50°	71596
55°	63228
60°	53515
65°	42006
70°	29993
75°	16424
80°	2901
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	4.9
10°-20°	246.2	13.3
20°-30°	341.9	18.5
30°-40°	373.1	20.2
40°-50°	348.0	18.8
50°-60°	264.2	14.3
60°-70°	144.7	7.8
70°-80°	39.8	2.2
80°-90°	0.6	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°	678.7	36.7
0°-40°	1051.8	56.9
0°-60°	1664.0	90.0
0°-90°	1849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	967	
5°	959	91
15°	878	246
25°	743	342
35°	596	373
45°	452	348
55°	295	264
65°	144	145
75°	35	40
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	967.0
2.5°	967.0
5°	958.9
7.5°	946.7
10°	928.3
12.5°	903.9
15°	877.5
17.5°	844.9
20°	814.3
22.5°	777.7
25°	743.1
27.5°	708.5
30°	669.8
32.5°	633.1
35°	596.5
37.5°	559.8
40°	525.2
42.5°	488.6
45°	451.9
47.5°	415.3
50°	374.6
52.5°	335.9
55°	295.2
57.5°	256.5
60°	217.8
62.5°	179.2
65°	144.5
67.5°	112.0
70°	83.5
72.5°	57.0
75°	34.6
77.5°	16.3
80°	4.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)