

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: P839845

Luminaire Tested: **LDS4C20D010 EU4209050 4LBSWMH**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839845
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 EU4209050 4LBSWMH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

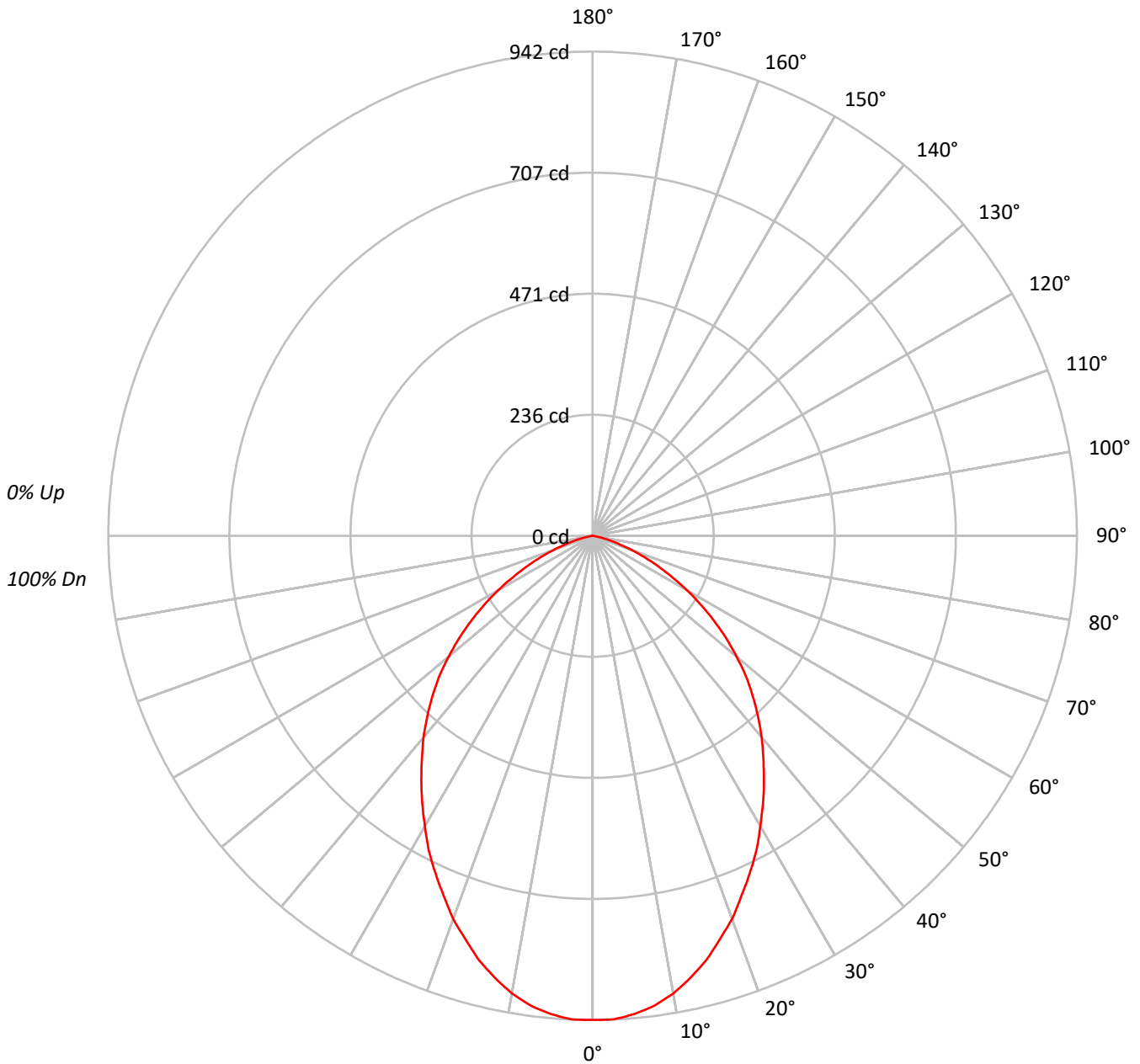
Lumens per Lamp: N/A
Luminaire Lumens: 1801.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			77
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			67
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			51
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115716
5°	115183
10°	112798
15°	108707
20°	103701
25°	98114
30°	92549
35°	87136
40°	82047
45°	76481
50°	69742
55°	61579
60°	52139
65°	40930
70°	29203
75°	15996
80°	2830
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	4.9
10°-20°	239.8	13.3
20°-30°	333.0	18.5
30°-40°	363.4	20.2
40°-50°	339.0	18.8
50°-60°	257.3	14.3
60°-70°	140.9	7.8
70°-80°	38.8	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°	661.1	36.7
0°-40°	1024.5	56.9
0°-60°	1620.8	90.0
0°-90°	1801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	942	
5°	934	88
15°	855	240
25°	724	333
35°	581	363
45°	440	339
55°	288	257
65°	141	141
75°	34	39
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	941.9
2.5°	941.9
5°	934.0
7.5°	922.1
10°	904.2
12.5°	880.5
15°	854.7
17.5°	823.0
20°	793.2
22.5°	757.5
25°	723.8
27.5°	690.1
30°	652.4
32.5°	616.7
35°	581.0
37.5°	545.3
40°	511.6
42.5°	475.9
45°	440.2
47.5°	404.5
50°	364.9
52.5°	327.2
55°	287.5
57.5°	249.8
60°	212.2
62.5°	174.5
65°	140.8
67.5°	109.0
70°	81.3
72.5°	55.5
75°	33.7
77.5°	15.9
80°	4.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)