

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: P839711

Luminaire Tested: **LDS4C10D010 EU4109030 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839711
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: LDS4C10D010 EU4109030 4LBSGPH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

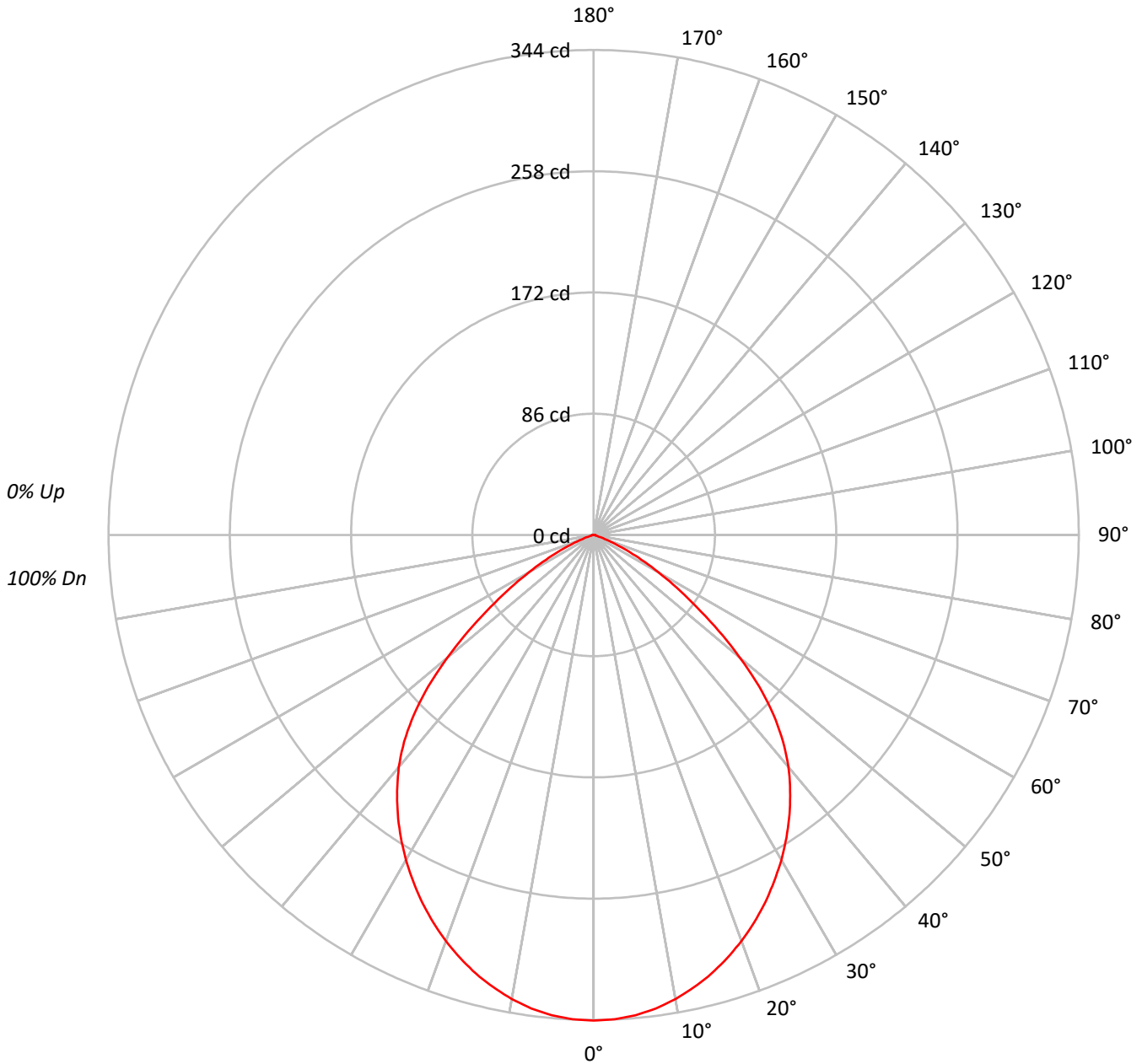
Lumens per Lamp: N/A
Luminaire Lumens: 656.0 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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°	42323
5°	42176
10°	41703
15°	40992
20°	40071
25°	38999
30°	37777
35°	36324
40°	34480
45°	31360
50°	25878
55°	19063
60°	12949
65°	7587
70°	2981
75°	665
80°	849
85°	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	4.9
10°-20°	90.7	13.8
20°-30°	132.4	20.2
30°-40°	151.1	23.0
40°-50°	137.4	20.9
50°-60°	81.0	12.4
60°-70°	27.2	4.1
70°-80°	2.8	0.4
80°-90°	1.0	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°	255.5	38.9
0°-40°	406.6	62.0
0°-60°	625.0	95.3
0°-90°	656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	344	
5°	342	32
15°	322	91
25°	288	132
35°	242	151
45°	180	137
55°	89	81
65°	26	27
75°	1	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	344.5
2.5°	343.9
5°	342.0
7.5°	338.8
10°	334.3
12.5°	328.7
15°	322.3
17.5°	314.8
20°	306.5
22.5°	297.5
25°	287.7
27.5°	277.1
30°	266.3
32.5°	254.4
35°	242.2
37.5°	228.9
40°	215.0
42.5°	198.9
45°	180.5
47.5°	159.2
50°	135.4
52.5°	111.7
55°	89.0
57.5°	69.7
60°	52.7
62.5°	38.1
65°	26.1
67.5°	16.0
70°	8.3
72.5°	3.2
75°	1.4
77.5°	1.4
80°	1.2
82.5°	1.1
85°	1.1
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)