

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: P839587

Luminaire Tested: **LDS4C05D010 EU4059050 4LBCSMMS**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839587
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: LDS4C05D010 EU4059050 4LBCSMMS
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

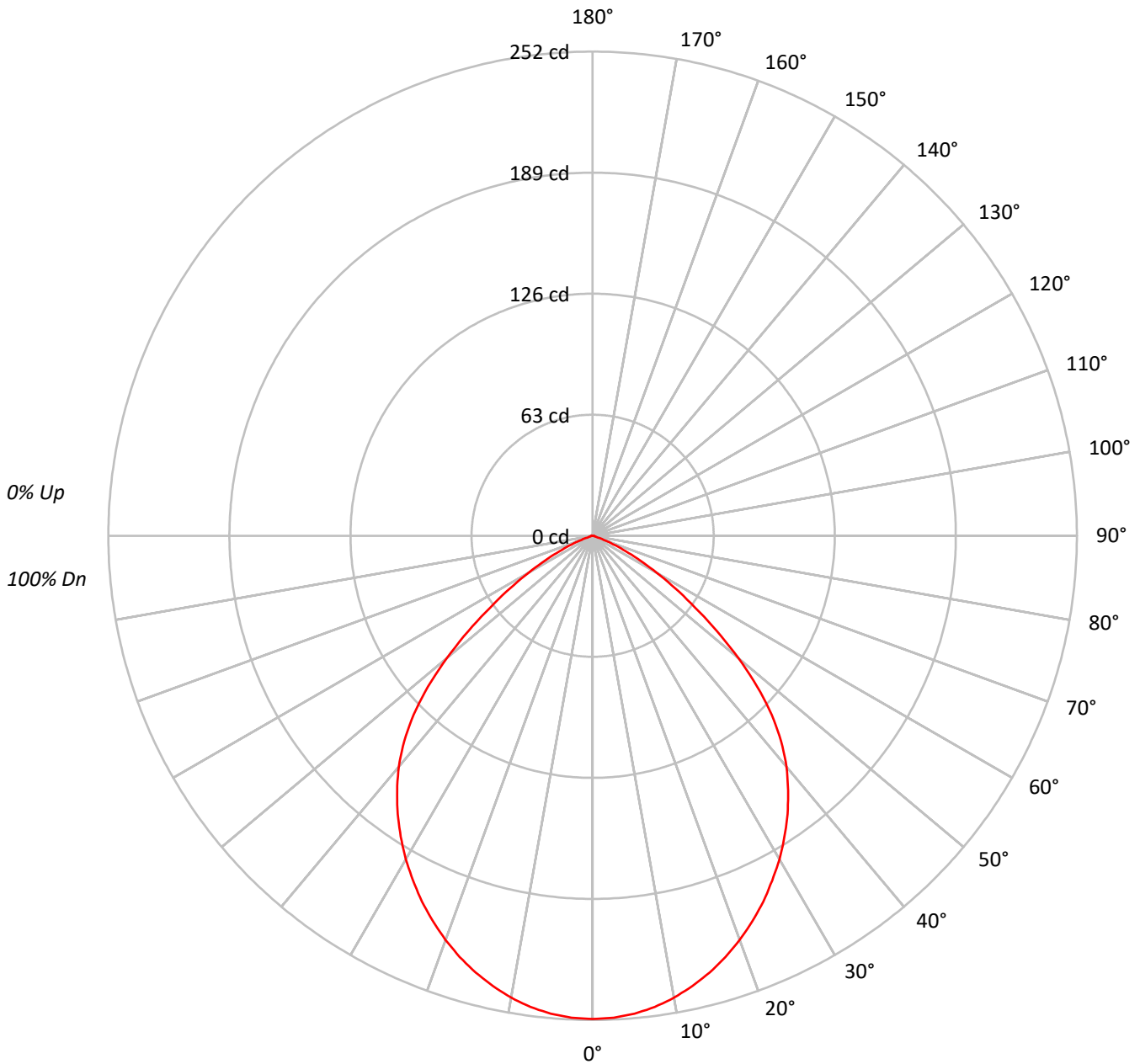
Lumens per Lamp: N/A
Luminaire Lumens: 479.0 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	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°	30898
5°	30794
10°	30451
15°	29927
20°	29259
25°	28480
30°	27577
35°	26516
40°	25179
45°	22899
50°	18902
55°	13922
60°	9435
65°	5523
70°	2191
75°	475
80°	637
85°	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	4.9
10°-20°	66.3	13.8
20°-30°	96.7	20.2
30°-40°	110.3	23.0
40°-50°	100.3	20.9
50°-60°	59.2	12.4
60°-70°	19.8	4.1
70°-80°	2.0	0.4
80°-90°	0.7	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°	186.6	39.0
0°-40°	296.9	62.0
0°-60°	456.4	95.3
0°-90°	479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	252	
5°	250	24
15°	235	66
25°	210	97
35°	177	110
45°	132	100
55°	65	59
65°	19	20
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	251.5
2.5°	251.1
5°	249.7
7.5°	247.4
10°	244.1
12.5°	240.0
15°	235.3
17.5°	229.9
20°	223.8
22.5°	217.2
25°	210.1
27.5°	202.3
30°	194.4
32.5°	185.8
35°	176.8
37.5°	167.1
40°	157.0
42.5°	145.2
45°	131.8
47.5°	116.2
50°	98.9
52.5°	81.6
55°	65.0
57.5°	50.9
60°	38.4
62.5°	27.8
65°	19.0
67.5°	11.7
70°	6.1
72.5°	2.3
75°	1.0
77.5°	1.0
80°	0.9
82.5°	0.8
85°	0.8
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)