

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: P840007

Luminaire Tested: **LDS4C40D010 EU4409030 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840007
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: LDS4C40D010 EU4409030 4LBCSMMS
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

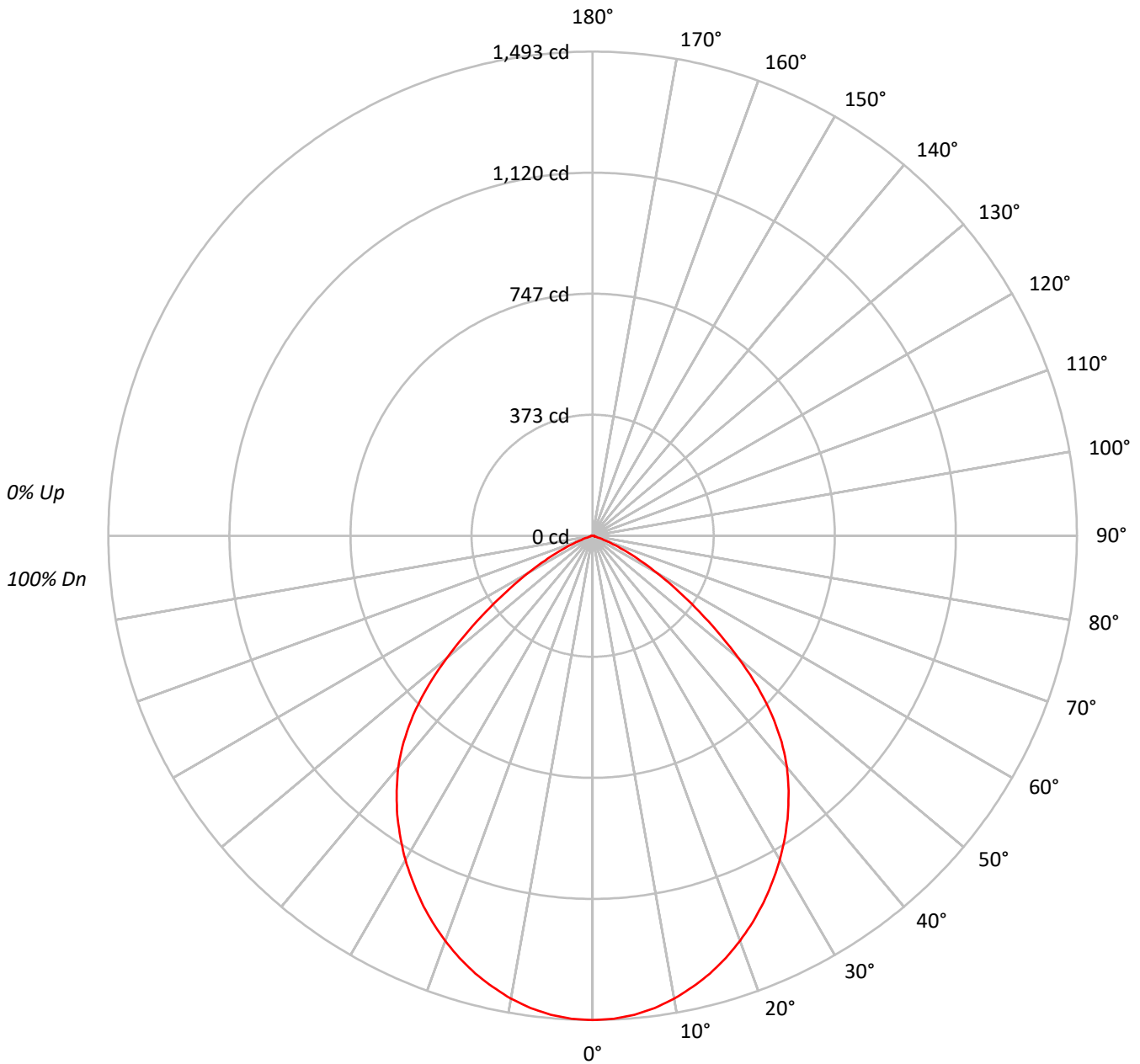
Lumens per Lamp: N/A
Luminaire Lumens: 2844.0 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	183457
5°	182838
10°	180823
15°	177719
20°	173738
25°	169090
30°	163762
35°	157460
40°	149517
45°	135935
50°	112229
55°	82634
60°	56095
65°	32849
70°	12967
75°	2895
80°	3820
85°	6484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	4.9
10°-20°	393.4	13.8
20°-30°	573.9	20.2
30°-40°	655.1	23.0
40°-50°	595.5	20.9
50°-60°	351.2	12.3
60°-70°	117.8	4.1
70°-80°	12.3	0.4
80°-90°	4.3	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°	1107.8	39.0
0°-40°	1762.9	62.0
0°-60°	2709.6	95.3
0°-90°	2844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1493	
5°	1483	140
15°	1397	393
25°	1247	574
35°	1050	655
45°	782	596
55°	386	351
65°	113	118
75°	6	12
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1493.3
2.5°	1491.0
5°	1482.6
7.5°	1468.7
10°	1449.5
12.5°	1424.9
15°	1397.3
17.5°	1365.0
20°	1328.9
22.5°	1289.7
25°	1247.4
27.5°	1201.3
30°	1154.4
32.5°	1102.9
35°	1049.9
37.5°	992.2
40°	932.3
42.5°	862.3
45°	782.4
47.5°	690.2
50°	587.2
52.5°	484.2
55°	385.8
57.5°	302.0
60°	228.3
62.5°	165.2
65°	113.0
67.5°	69.2
70°	36.1
72.5°	13.8
75°	6.1
77.5°	6.1
80°	5.4
82.5°	4.6
85°	4.6
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)