

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: P840377

Luminaire Tested: **LDS4C40D010 EU4409050 4LPSSQMMS**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840377
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 EU4409050 4LBPSSQMMS
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

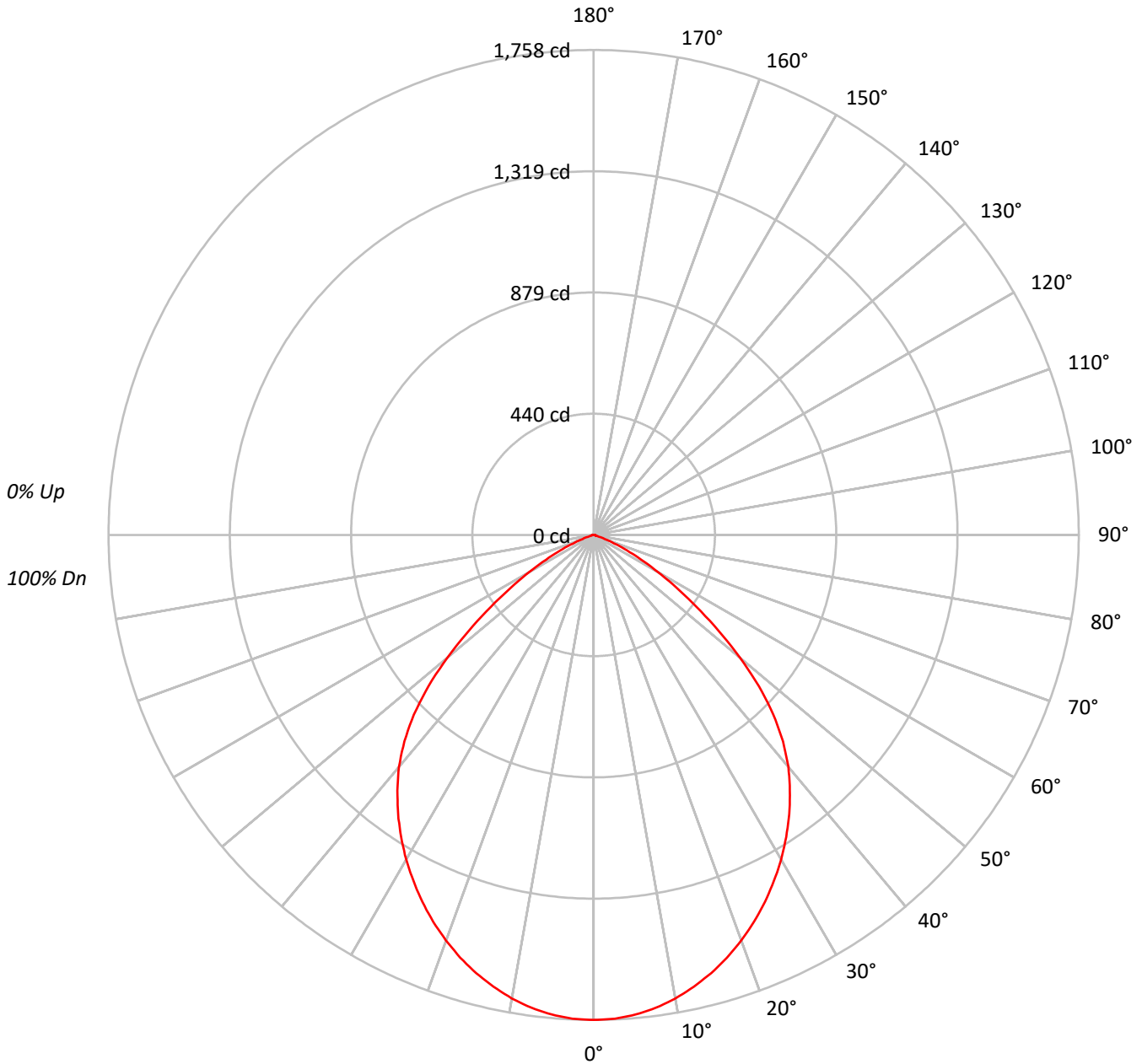
Lumens per Lamp: N/A
Luminaire Lumens: 3347.9 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	169627
5°	169045
10°	167189
15°	164313
20°	160635
25°	156331
30°	151414
35°	145578
40°	138238
45°	125690
50°	103756
55°	76407
60°	51853
65°	30366
70°	11990
75°	2684
80°	3501
85°	5978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	4.9
10°-20°	463.2	13.8
20°-30°	675.6	20.2
30°-40°	771.1	23.0
40°-50°	701.1	20.9
50°-60°	413.5	12.4
60°-70°	138.6	4.1
70°-80°	14.5	0.4
80°-90°	5.0	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°	1304.1	39.0
0°-40°	2075.3	62.0
0°-60°	3189.8	95.3
0°-90°	3347.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3347.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1758	
5°	1745	165
15°	1645	463
25°	1468	676
35°	1236	771
45°	921	701
55°	454	413
65°	133	139
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1758.0
2.5°	1755.3
5°	1745.3
7.5°	1729.0
10°	1706.4
12.5°	1677.4
15°	1644.9
17.5°	1606.9
20°	1564.4
22.5°	1518.2
25°	1468.4
27.5°	1414.2
30°	1359.0
32.5°	1298.3
35°	1235.9
37.5°	1168.1
40°	1097.5
42.5°	1015.2
45°	921.1
47.5°	812.5
50°	691.2
52.5°	570.0
55°	454.2
57.5°	355.6
60°	268.7
62.5°	194.5
65°	133.0
67.5°	81.4
70°	42.5
72.5°	16.3
75°	7.2
77.5°	7.2
80°	6.3
82.5°	5.4
85°	5.4
87.5°	4.5
90°	0.0



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— 0°-180°







(END OF REPORT)