

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: P840437

Luminaire Tested: **LDS4C70D010 EU4709050 4LBPSSQMMS**

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: P840437
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: LDS4C70D010 EU4709050 4LBPSSQMMS
Description: 4 INCH 7000 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

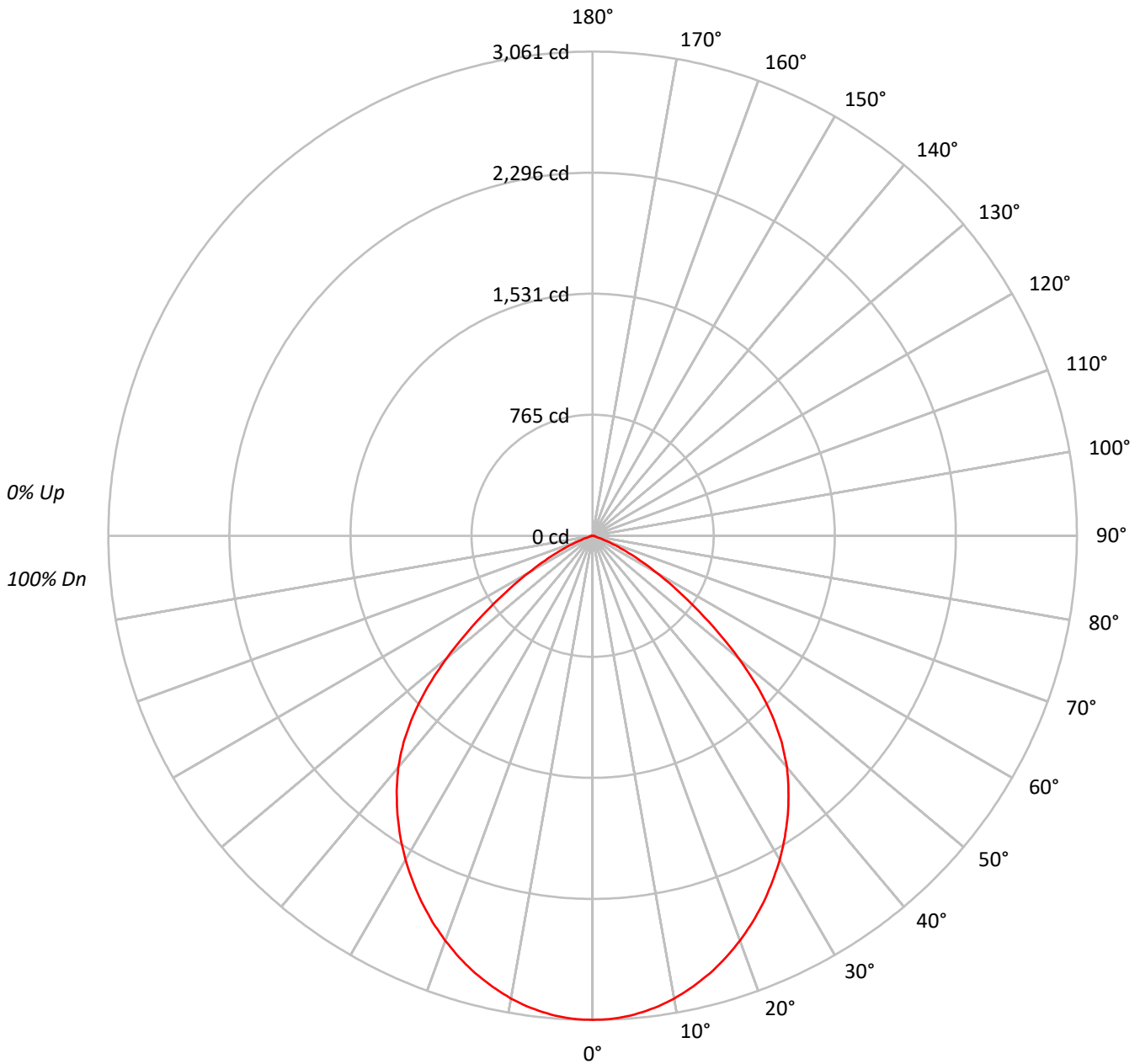
Lumens per Lamp: N/A
Luminaire Lumens: 5829.1 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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	65	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°	295324
5°	294311
10°	291081
15°	286073
20°	279663
25°	272185
30°	263610
35°	253463
40°	240679
45°	218821
50°	180657
55°	133031
60°	90275
65°	52877
70°	20876
75°	4697
80°	6112
85°	10517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	4.9
10°-20°	806.4	13.8
20°-30°	1176.2	20.2
30°-40°	1342.6	23.0
40°-50°	1220.6	20.9
50°-60°	719.9	12.4
60°-70°	241.4	4.1
70°-80°	25.2	0.4
80°-90°	8.8	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°	2270.5	39.0
0°-40°	3613.1	62.0
0°-60°	5553.6	95.3
0°-90°	5829.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5829.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3061	
5°	3039	288
15°	2864	806
25°	2557	1176
35°	2152	1343
45°	1604	1221
55°	791	720
65°	232	241
75°	13	25
85°	10	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3060.7
2.5°	3056.0
5°	3038.6
7.5°	3010.3
10°	2970.9
12.5°	2920.5
15°	2863.8
17.5°	2797.6
20°	2723.6
22.5°	2643.3
25°	2556.6
27.5°	2462.1
30°	2366.0
32.5°	2260.5
35°	2151.8
37.5°	2033.6
40°	1910.8
42.5°	1767.4
45°	1603.6
47.5°	1414.6
50°	1203.5
52.5°	992.4
55°	790.8
57.5°	619.1
60°	467.8
62.5°	338.7
65°	231.6
67.5°	141.8
70°	74.0
72.5°	28.4
75°	12.6
77.5°	12.6
80°	11.0
82.5°	9.5
85°	9.5
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)