

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: P840448

Luminaire Tested: **LDS4C80D010 EU4809027 4LBPSSQMB**

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: P840448
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: LDS4C80D010 EU4809027 4LBPSSQMB
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

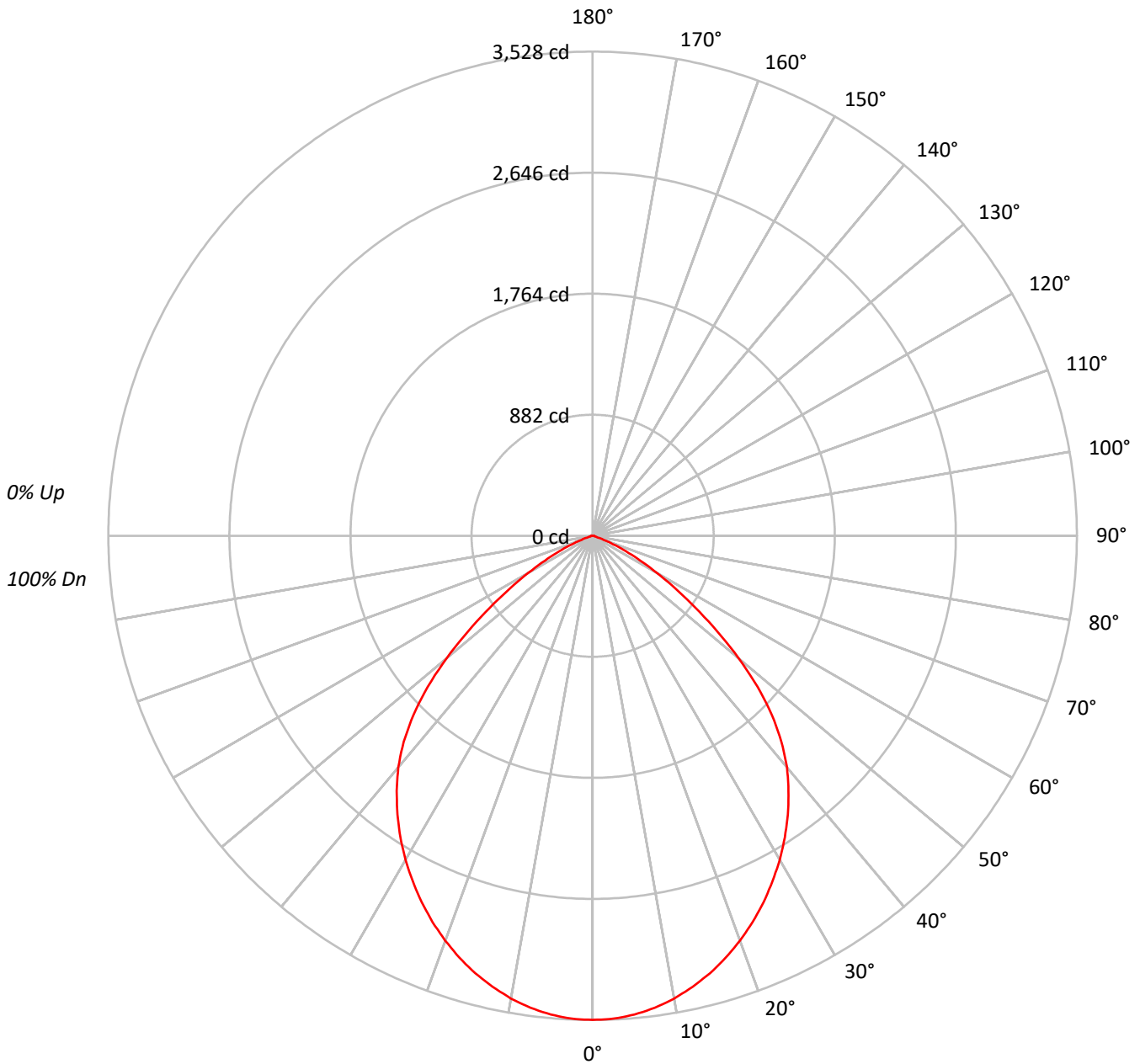
Lumens per Lamp: N/A
Luminaire Lumens: 6718.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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°	340365
5°	339205
10°	335475
15°	329706
20°	322317
25°	313695
30°	303820
35°	292122
40°	277383
45°	252198
50°	208203
55°	153319
60°	104054
65°	60937
70°	24064
75°	5406
80°	7057
85°	12067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.8	4.9
10°-20°	929.4	13.8
20°-30°	1355.6	20.2
30°-40°	1547.4	23.0
40°-50°	1406.7	20.9
50°-60°	829.7	12.4
60°-70°	278.2	4.1
70°-80°	29.0	0.4
80°-90°	10.1	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°	2616.8	39.0
0°-40°	4164.2	62.0
0°-60°	6400.6	95.3
0°-90°	6718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6718.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3528	
5°	3502	332
15°	3301	929
25°	2946	1356
35°	2480	1547
45°	1848	1407
55°	911	830
65°	267	278
75°	14	29
85°	11	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3527.5
2.5°	3522.1
5°	3502.1
7.5°	3469.4
10°	3424.0
12.5°	3365.9
15°	3300.6
17.5°	3224.3
20°	3139.0
22.5°	3046.4
25°	2946.5
27.5°	2837.6
30°	2726.9
32.5°	2605.2
35°	2480.0
37.5°	2343.8
40°	2202.2
42.5°	2037.0
45°	1848.2
47.5°	1630.3
50°	1387.0
52.5°	1143.8
55°	911.4
57.5°	713.5
60°	539.2
62.5°	390.3
65°	266.9
67.5°	163.4
70°	85.3
72.5°	32.7
75°	14.5
77.5°	14.5
80°	12.7
82.5°	10.9
85°	10.9
87.5°	9.1
90°	0.0



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— 0°-180°







(END OF REPORT)