

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: P840449

Luminaire Tested: **LDS4C80D010 EU4809027 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: P840449
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 4LBPSSQMMS
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

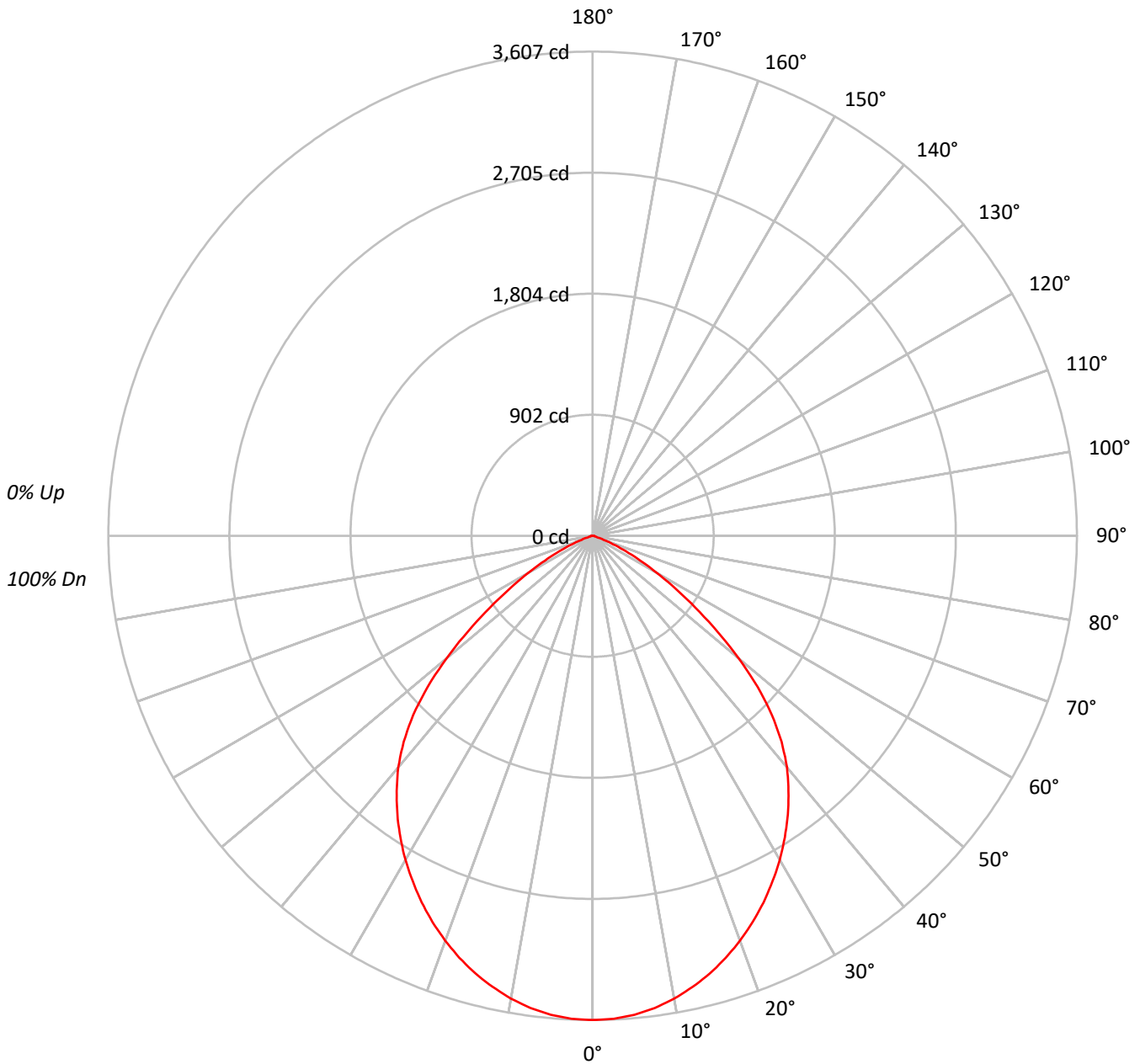
Lumens per Lamp: N/A
Luminaire Lumens: 6870.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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				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°	348064
5°	346876
10°	343068
15°	337158
20°	329607
25°	320796
30°	310694
35°	298730
40°	283656
45°	257902
50°	212916
55°	156784
60°	106408
65°	62306
70°	24629
75°	5555
80°	7224
85°	12289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.3	4.9
10°-20°	950.4	13.8
20°-30°	1386.3	20.2
30°-40°	1582.4	23.0
40°-50°	1438.6	20.9
50°-60°	848.4	12.3
60°-70°	284.6	4.1
70°-80°	29.7	0.4
80°-90°	10.4	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°	2676.0	39.0
0°-40°	4258.4	62.0
0°-60°	6545.4	95.3
0°-90°	6870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6870.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3607	
5°	3581	339
15°	3375	950
25°	3013	1386
35°	2536	1582
45°	1890	1439
55°	932	848
65°	273	285
75°	15	30
85°	11	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3607.3
2.5°	3601.7
5°	3581.3
7.5°	3547.9
10°	3501.5
12.5°	3442.1
15°	3375.2
17.5°	3297.3
20°	3210.0
22.5°	3115.3
25°	3013.2
27.5°	2901.8
30°	2788.6
32.5°	2664.2
35°	2536.1
37.5°	2396.8
40°	2252.0
42.5°	2083.1
45°	1890.0
47.5°	1667.2
50°	1418.4
52.5°	1169.6
55°	932.0
57.5°	729.6
60°	551.4
62.5°	399.2
65°	272.9
67.5°	167.1
70°	87.3
72.5°	33.4
75°	14.9
77.5°	14.9
80°	13.0
82.5°	11.1
85°	11.1
87.5°	9.3
90°	0.0



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— 0°-180°







(END OF REPORT)