

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: P840458

Luminaire Tested: **LDS4C90D010 EU4909027 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: P840458
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: LDS4C90D010 EU4909027 4LBPSSQMB
Description: 4 INCH 9000 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

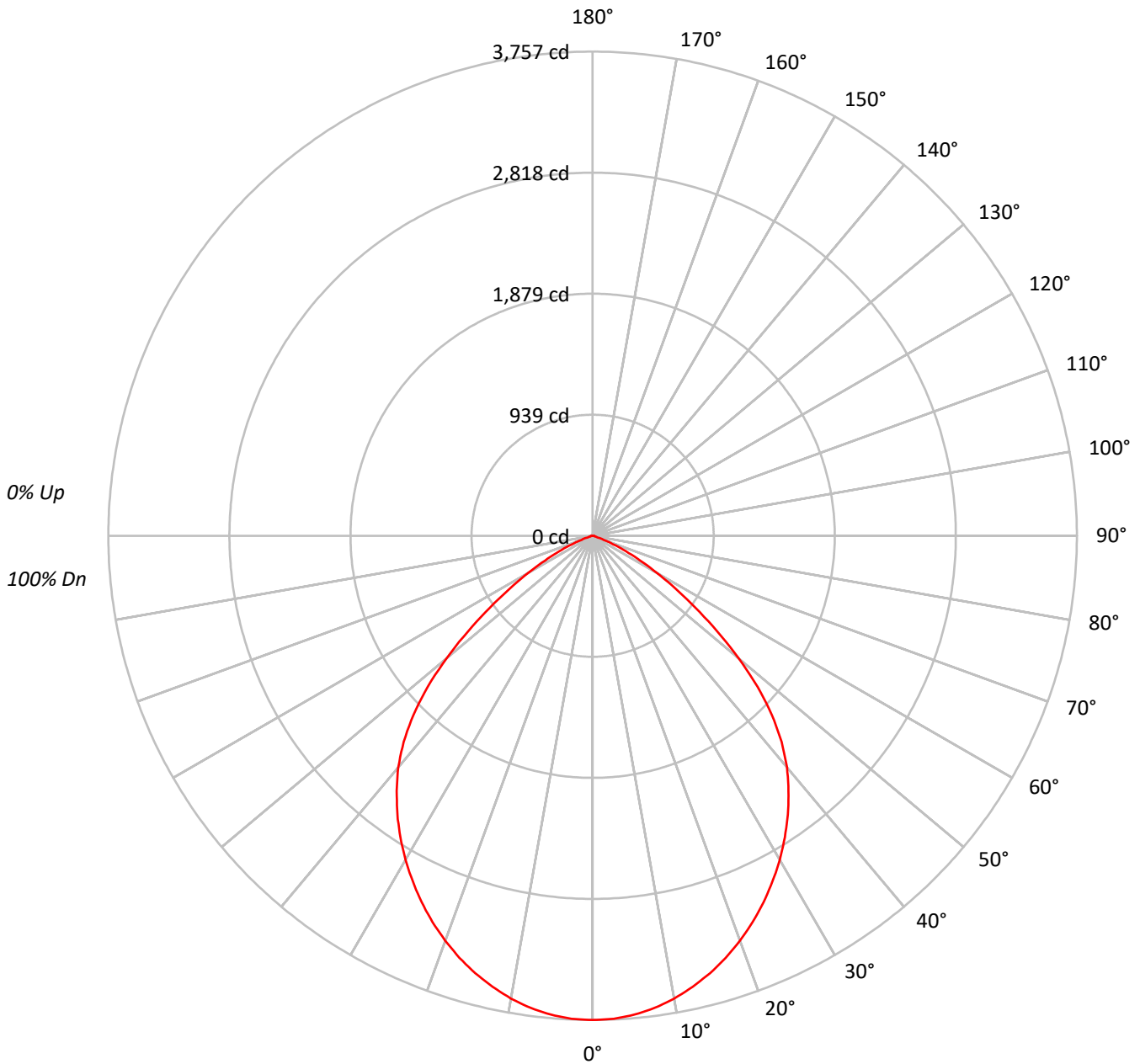
Lumens per Lamp: N/A
Luminaire Lumens: 7155.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	362509
5°	361269
10°	357294
15°	351153
20°	343284
25°	334104
30°	323574
35°	311122
40°	295420
45°	268600
50°	221758
55°	163294
60°	110827
65°	64886
70°	25644
75°	5778
80°	7501
85°	12842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.4	4.9
10°-20°	989.8	13.8
20°-30°	1443.8	20.2
30°-40°	1648.0	23.0
40°-50°	1498.2	20.9
50°-60°	883.7	12.4
60°-70°	296.3	4.1
70°-80°	31.0	0.4
80°-90°	10.8	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°	2787.0	39.0
0°-40°	4435.0	62.0
0°-60°	6817.0	95.3
0°-90°	7155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7155.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3757	
5°	3730	353
15°	3515	990
25°	3138	1444
35°	2641	1648
45°	1968	1498
55°	971	884
65°	284	296
75°	16	31
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3757.0
2.5°	3751.2
5°	3729.9
7.5°	3695.1
10°	3646.7
12.5°	3584.9
15°	3515.3
17.5°	3434.0
20°	3343.2
22.5°	3244.6
25°	3138.2
27.5°	3022.2
30°	2904.2
32.5°	2774.7
35°	2641.3
37.5°	2496.3
40°	2345.4
42.5°	2169.5
45°	1968.4
47.5°	1736.4
50°	1477.3
52.5°	1218.2
55°	970.7
57.5°	759.9
60°	574.3
62.5°	415.7
65°	284.2
67.5°	174.0
70°	90.9
72.5°	34.8
75°	15.5
77.5°	15.5
80°	13.5
82.5°	11.6
85°	11.6
87.5°	9.7
90°	0.0



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— 0°-180°







(END OF REPORT)