

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: P840401

Luminaire Tested: **LDS4C55D010 EU4559030 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: P840401  
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: LDS4C55D010 EU4559030 4LBPSSQMMS  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

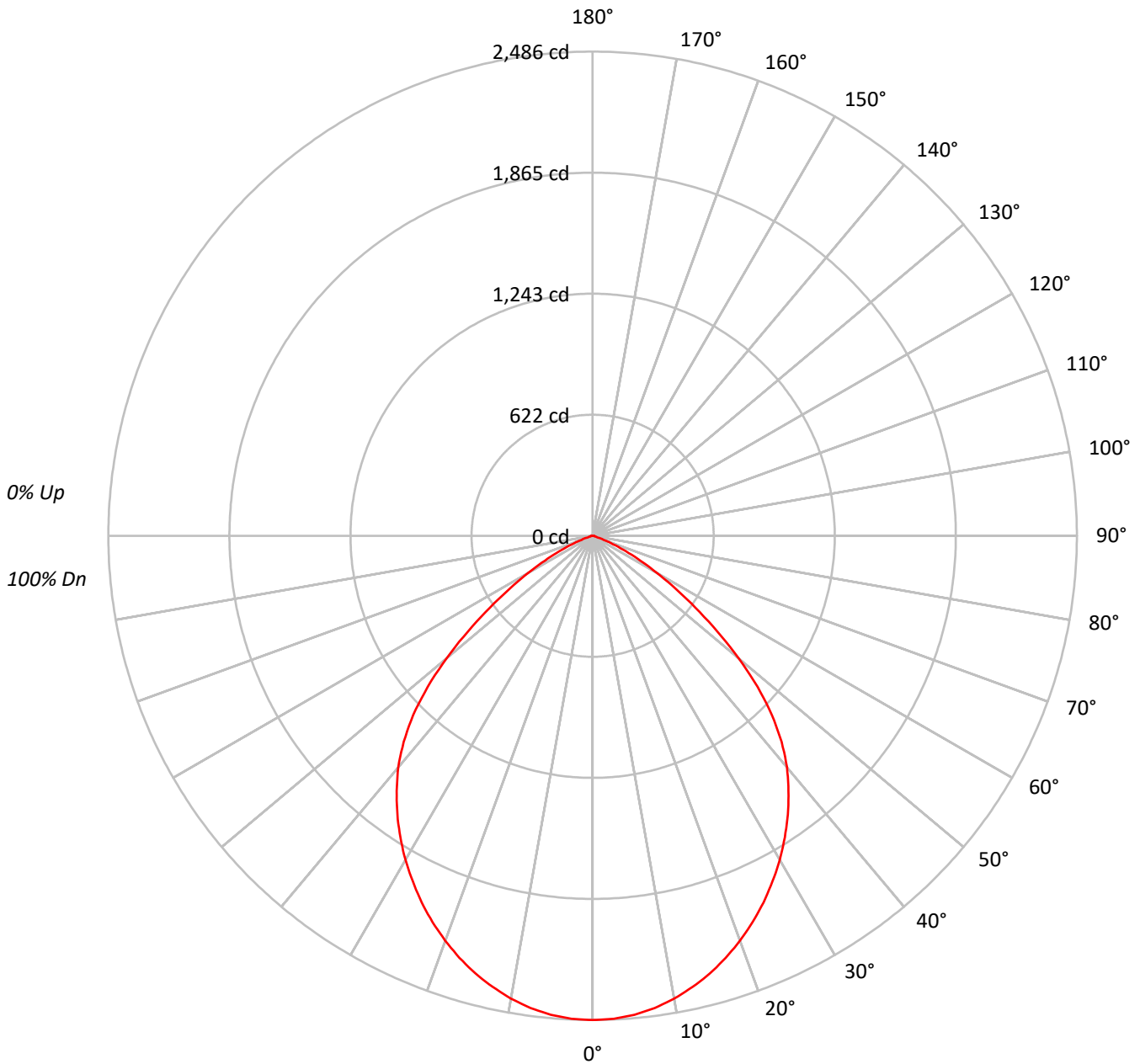
Lumens per Lamp: N/A  
Luminaire Lumens: 4735.0 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
Input Voltage (V):  
Input Current (Ain): 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°	239900
5°	239073
10°	236449
15°	232380
20°	227172
25°	221104
30°	214141
35°	205887
40°	195511
45°	177747
50°	146748
55°	108067
60°	73332
65°	42946
70°	16955
75°	3803
80°	5001
85°	8525



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	4.9
10°-20°	655.0	13.8
20°-30°	955.5	20.2
30°-40°	1090.6	23.0
40°-50°	991.5	20.9
50°-60°	584.8	12.3
60°-70°	196.1	4.1
70°-80°	20.5	0.4
80°-90°	7.2	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°	1844.4	39.0
0°-40°	2935.0	62.0
0°-60°	4511.3	95.3
0°-90°	4735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4735.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2486	
5°	2468	234
15°	2326	655
25°	2077	955
35°	1748	1091
45°	1303	991
55°	642	585
65°	188	196
75°	10	20
85°	8	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2486.3
2.5°	2482.4
5°	2468.3
7.5°	2445.3
10°	2413.3
12.5°	2372.4
15°	2326.3
17.5°	2272.6
20°	2212.4
22.5°	2147.2
25°	2076.8
27.5°	2000.0
30°	1922.0
32.5°	1836.2
35°	1747.9
37.5°	1652.0
40°	1552.2
42.5°	1435.7
45°	1302.6
47.5°	1149.1
50°	977.6
52.5°	806.1
55°	642.4
57.5°	502.9
60°	380.0
62.5°	275.1
65°	188.1
67.5°	115.2
70°	60.1
72.5°	23.0
75°	10.2
77.5°	10.2
80°	9.0
82.5°	7.7
85°	7.7
87.5°	6.4
90°	0.0



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— 0°-180°







(END OF REPORT)