

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: P840405

Luminaire Tested: **LDS4C55D010 EU4559040 4LPSSQMMS**

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: P840405
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 EU4559040 4LBPSSQMMS
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

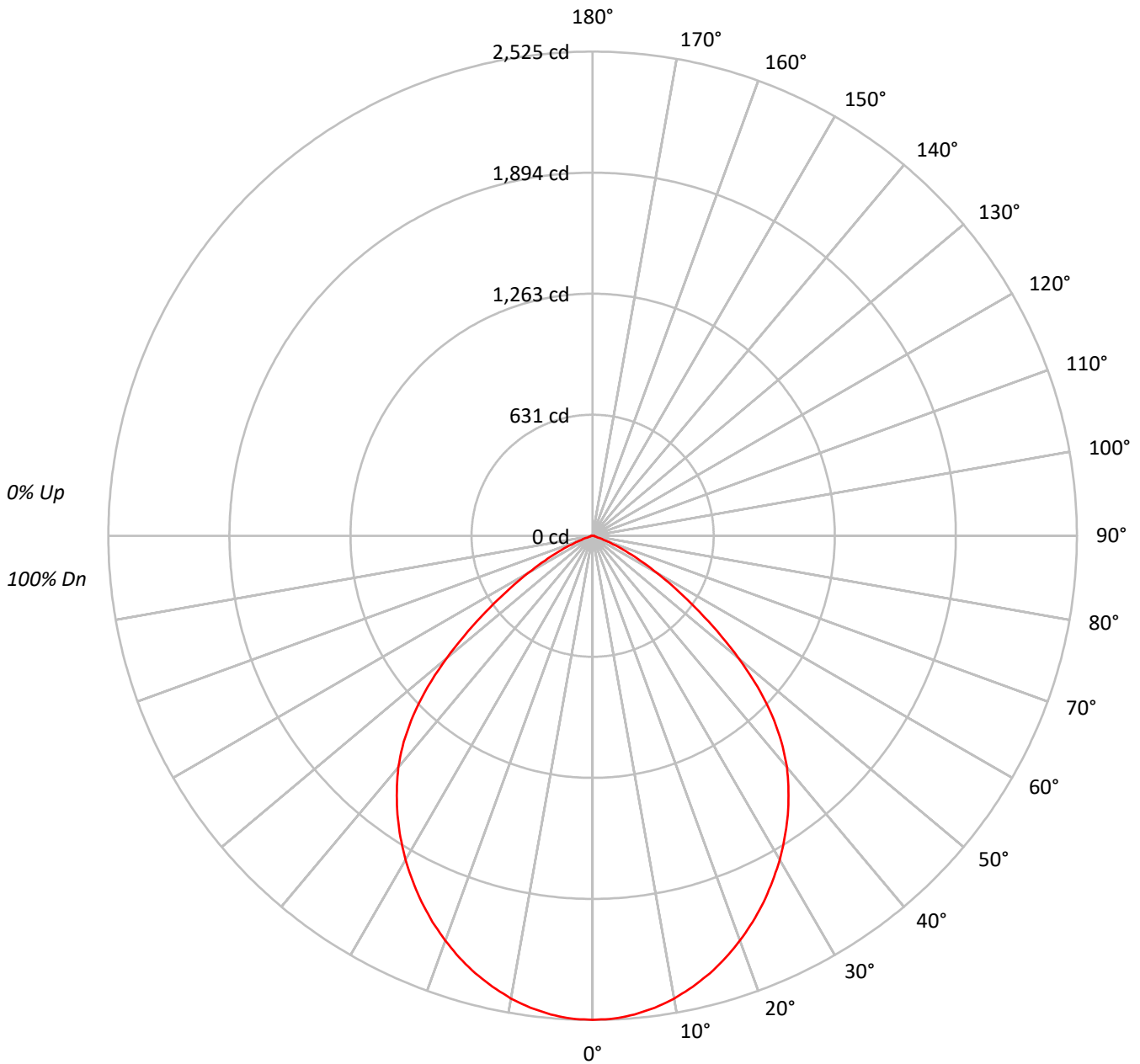
Lumens per Lamp: N/A
Luminaire Lumens: 4808.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V):
Input Current (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°	243596
5°	242764
10°	240094
15°	235966
20°	230674
25°	224511
30°	217439
35°	209068
40°	198521
45°	180490
50°	149014
55°	109732
60°	74470
65°	43608
70°	17237
75°	3877
80°	5056
85°	8635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	4.9
10°-20°	665.1	13.8
20°-30°	970.2	20.2
30°-40°	1107.4	23.0
40°-50°	1006.8	20.9
50°-60°	593.8	12.4
60°-70°	199.1	4.1
70°-80°	20.8	0.4
80°-90°	7.3	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°	1872.8	39.0
0°-40°	2980.2	62.0
0°-60°	4580.8	95.3
0°-90°	4808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4808.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2525	
5°	2506	237
15°	2362	665
25°	2109	970
35°	1775	1107
45°	1323	1007
55°	652	594
65°	191	199
75°	10	21
85°	8	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2524.6
2.5°	2520.7
5°	2506.4
7.5°	2483.0
10°	2450.5
12.5°	2409.0
15°	2362.2
17.5°	2307.6
20°	2246.5
22.5°	2180.3
25°	2108.8
27.5°	2030.8
30°	1951.6
32.5°	1864.5
35°	1774.9
37.5°	1677.4
40°	1576.1
42.5°	1457.8
45°	1322.7
47.5°	1166.8
50°	992.7
52.5°	818.6
55°	652.3
57.5°	510.6
60°	385.9
62.5°	279.4
65°	191.0
67.5°	116.9
70°	61.1
72.5°	23.4
75°	10.4
77.5°	10.4
80°	9.1
82.5°	7.8
85°	7.8
87.5°	6.5
90°	0.0



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— 0°-180°







(END OF REPORT)