

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: P840077

Luminaire Tested: **LDS4C45D010 EU4459040 4LBCSMMS**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P840077
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: LDS4C45D010 EU4459040 4LBCSMMS
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

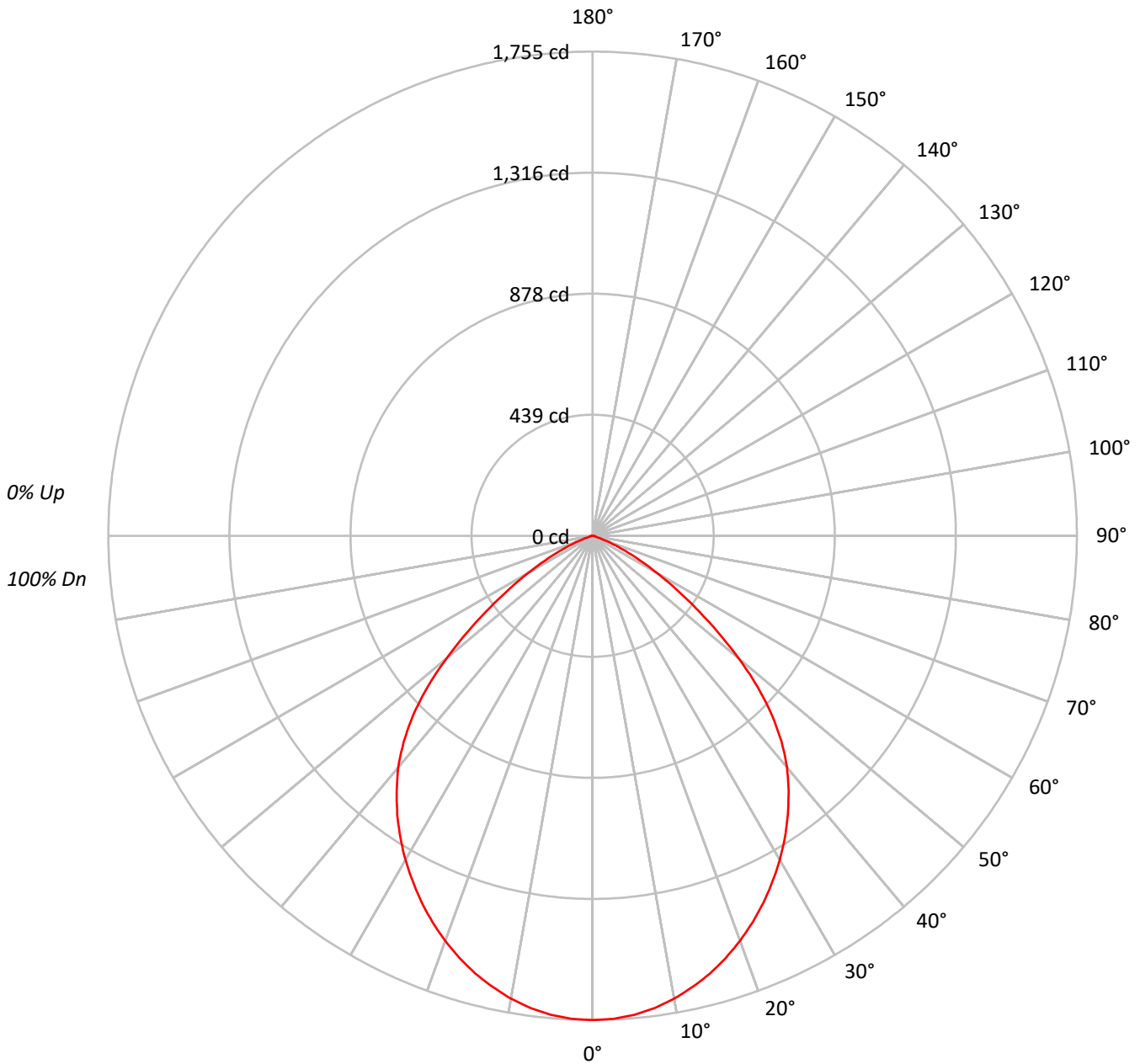
Lumens per Lamp: N/A
Luminaire Lumens: 3342.9 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	215645
5°	214915
10°	212559
15°	208892
20°	204213
25°	198763
30°	192488
35°	185086
40°	175738
45°	159790
50°	131915
55°	97134
60°	65923
65°	38604
70°	15266
75°	3418
80°	4457
85°	7612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	4.9
10°-20°	462.5	13.8
20°-30°	674.6	20.2
30°-40°	770.0	23.0
40°-50°	700.0	20.9
50°-60°	412.9	12.3
60°-70°	138.5	4.1
70°-80°	14.5	0.4
80°-90°	5.0	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°	1302.2	39.0
0°-40°	2072.1	62.0
0°-60°	3185.0	95.3
0°-90°	3342.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3342.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1755	
5°	1743	165
15°	1642	462
25°	1466	675
35°	1234	770
45°	920	700
55°	454	413
65°	133	138
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1755.3
2.5°	1752.6
5°	1742.7
7.5°	1726.4
10°	1703.9
12.5°	1674.9
15°	1642.4
17.5°	1604.5
20°	1562.0
22.5°	1515.9
25°	1466.3
27.5°	1412.0
30°	1356.9
32.5°	1296.4
35°	1234.1
37.5°	1166.3
40°	1095.8
42.5°	1013.6
45°	919.7
47.5°	811.3
50°	690.2
52.5°	569.2
55°	453.5
57.5°	355.0
60°	268.3
62.5°	194.2
65°	132.8
67.5°	81.3
70°	42.5
72.5°	16.3
75°	7.2
77.5°	7.2
80°	6.3
82.5°	5.4
85°	5.4
87.5°	4.5
90°	0.0



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— 0°-180°







(END OF REPORT)