

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: P839837

Luminaire Tested: **LDS4C20D010 EU4209050 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839837
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: LDS4C20D010 EU4209050 4LBCSMMS
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

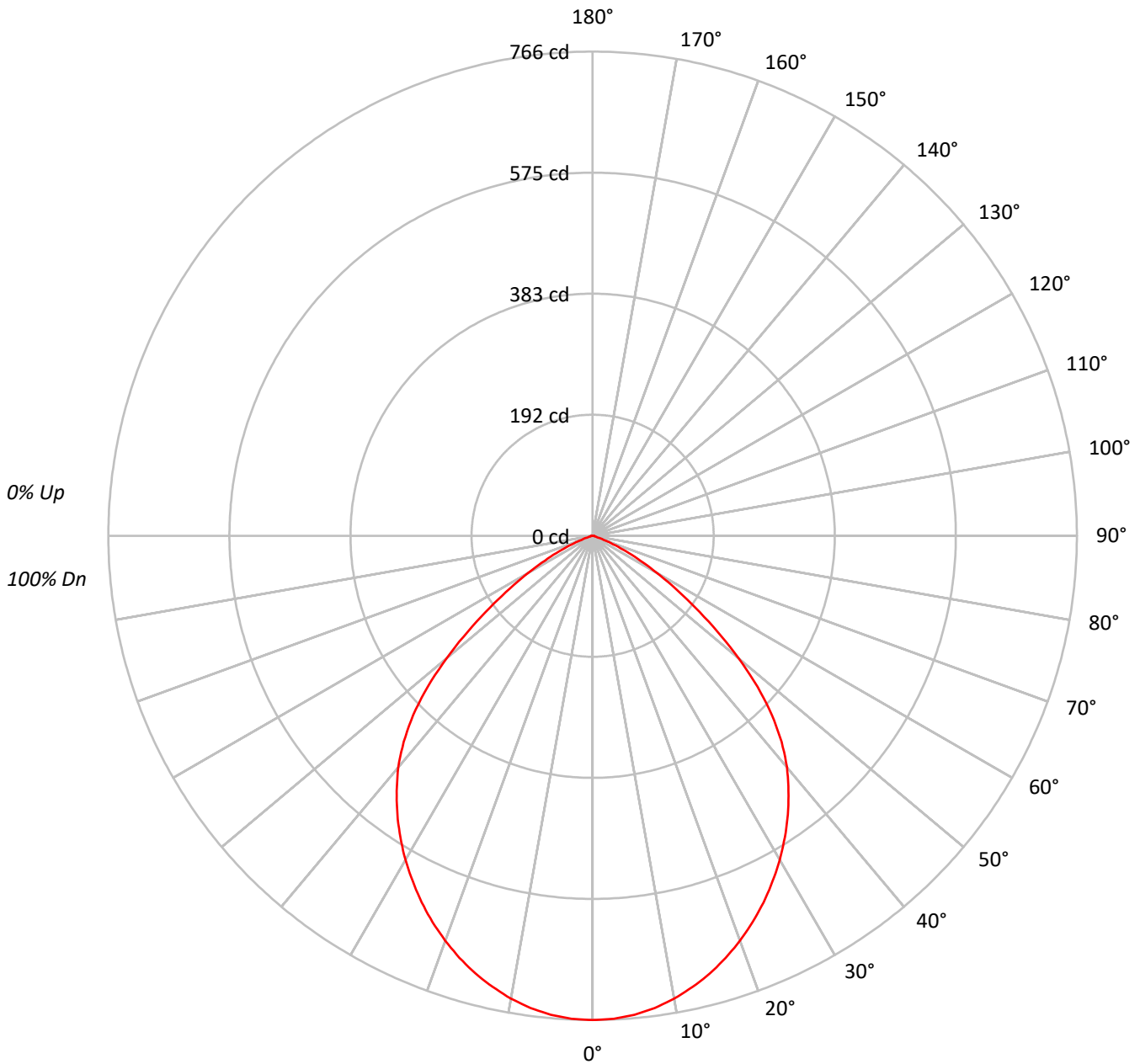
Lumens per Lamp: N/A
Luminaire Lumens: 1459.1 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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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CATALOG NUMBER: LDS4C20D010 EU4209050 4LBCSMMS

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°	94118
5°	93799
10°	92763
15°	91168
20°	89124
25°	86741
30°	84009
35°	80777
40°	76707
45°	69740
50°	57567
55°	42388
60°	28772
65°	16860
70°	6645
75°	1519
80°	1981
85°	3383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	4.9
10°-20°	201.8	13.8
20°-30°	294.4	20.2
30°-40°	336.1	23.0
40°-50°	305.5	20.9
50°-60°	180.2	12.3
60°-70°	60.4	4.1
70°-80°	6.3	0.4
80°-90°	2.2	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°	568.3	38.9
0°-40°	904.4	62.0
0°-60°	1390.1	95.3
0°-90°	1459.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1459.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	766	
5°	761	72
15°	717	202
25°	640	294
35°	539	336
45°	401	306
55°	198	180
65°	58	60
75°	3	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	766.1
2.5°	764.9
5°	760.6
7.5°	753.5
10°	743.6
12.5°	731.0
15°	716.8
17.5°	700.2
20°	681.7
22.5°	661.6
25°	639.9
27.5°	616.3
30°	592.2
32.5°	565.8
35°	538.6
37.5°	509.0
40°	478.3
42.5°	442.4
45°	401.4
47.5°	354.1
50°	301.2
52.5°	248.4
55°	197.9
57.5°	155.0
60°	117.1
62.5°	84.8
65°	58.0
67.5°	35.5
70°	18.5
72.5°	7.1
75°	3.2
77.5°	3.2
80°	2.8
82.5°	2.4
85°	2.4
87.5°	2.0
90°	0.0



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— 0°-180°







(END OF REPORT)