

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: P839809

Luminaire Tested: **LDS4C20D010 EU4209030 4LBPSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839809
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 EU4209030 4LBPSMMS
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

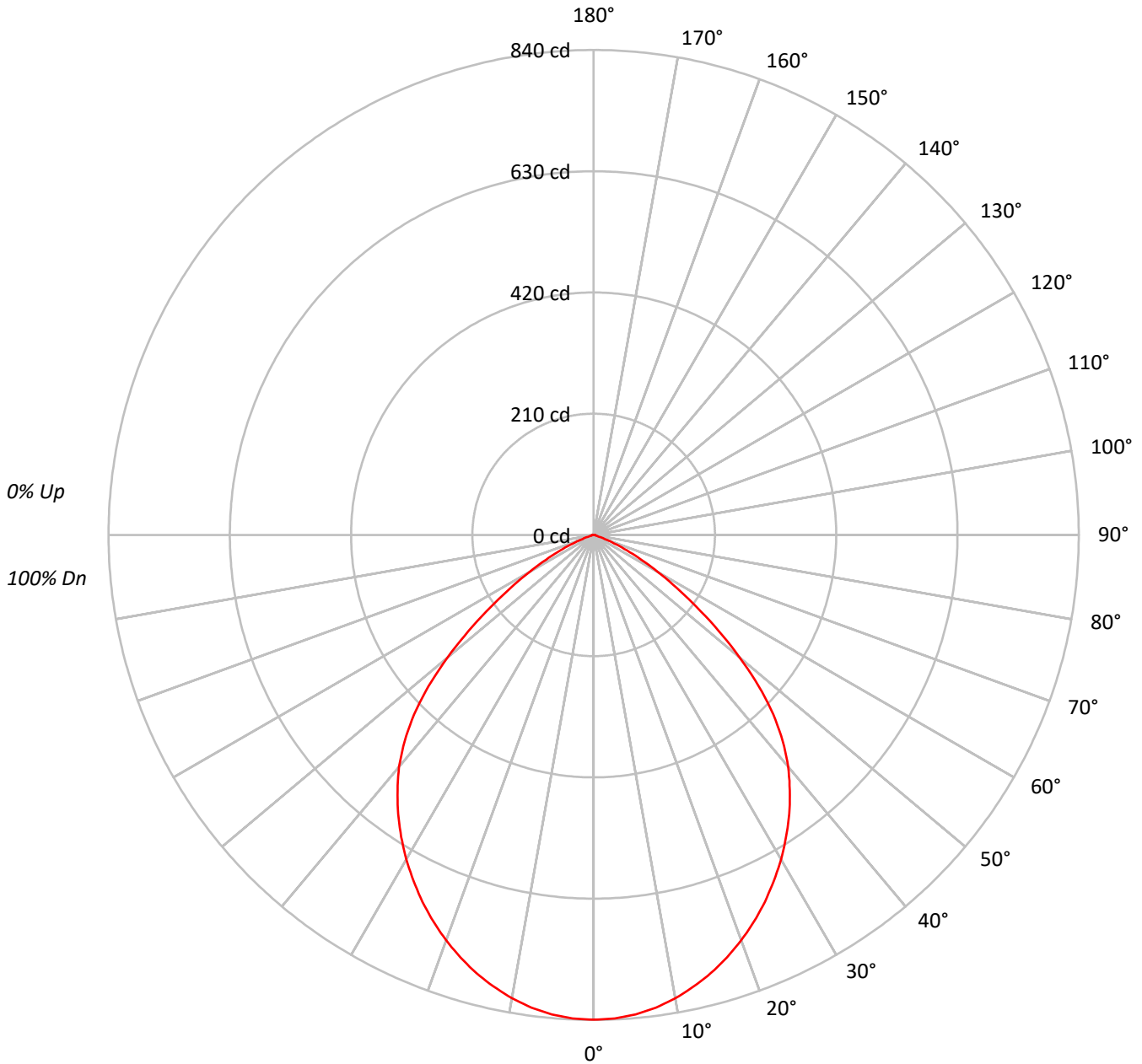
Lumens per Lamp: N/A
Luminaire Lumens: 1599.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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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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°	103148
5°	102802
10°	101670
15°	99918
20°	97674
25°	95064
30°	92066
35°	88531
40°	84068
45°	76429
50°	63091
55°	46457
60°	31524
65°	18459
70°	7292
75°	1661
80°	2122
85°	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	4.9
10°-20°	221.2	13.8
20°-30°	322.7	20.2
30°-40°	368.3	23.0
40°-50°	334.8	20.9
50°-60°	197.4	12.3
60°-70°	66.2	4.1
70°-80°	6.9	0.4
80°-90°	2.4	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°	622.8	39.0
0°-40°	991.1	62.0
0°-60°	1523.4	95.3
0°-90°	1599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1599.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	840	
5°	834	79
15°	786	221
25°	701	323
35°	590	368
45°	440	335
55°	217	197
65°	64	66
75°	4	7
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	839.6
2.5°	838.3
5°	833.6
7.5°	825.8
10°	815.0
12.5°	801.1
15°	785.6
17.5°	767.4
20°	747.1
22.5°	725.1
25°	701.3
27.5°	675.4
30°	649.0
32.5°	620.1
35°	590.3
37.5°	557.9
40°	524.2
42.5°	484.8
45°	439.9
47.5°	388.0
50°	330.1
52.5°	272.2
55°	216.9
57.5°	169.8
60°	128.3
62.5°	92.9
65°	63.5
67.5°	38.9
70°	20.3
72.5°	7.8
75°	3.5
77.5°	3.5
80°	3.0
82.5°	2.6
85°	2.6
87.5°	2.2
90°	0.0



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— 0°-180°







(END OF REPORT)