

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: P839806

Luminaire Tested: **LDS4C20D010 EU4209030 4LBCSMB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839806
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 4LBCSMB
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

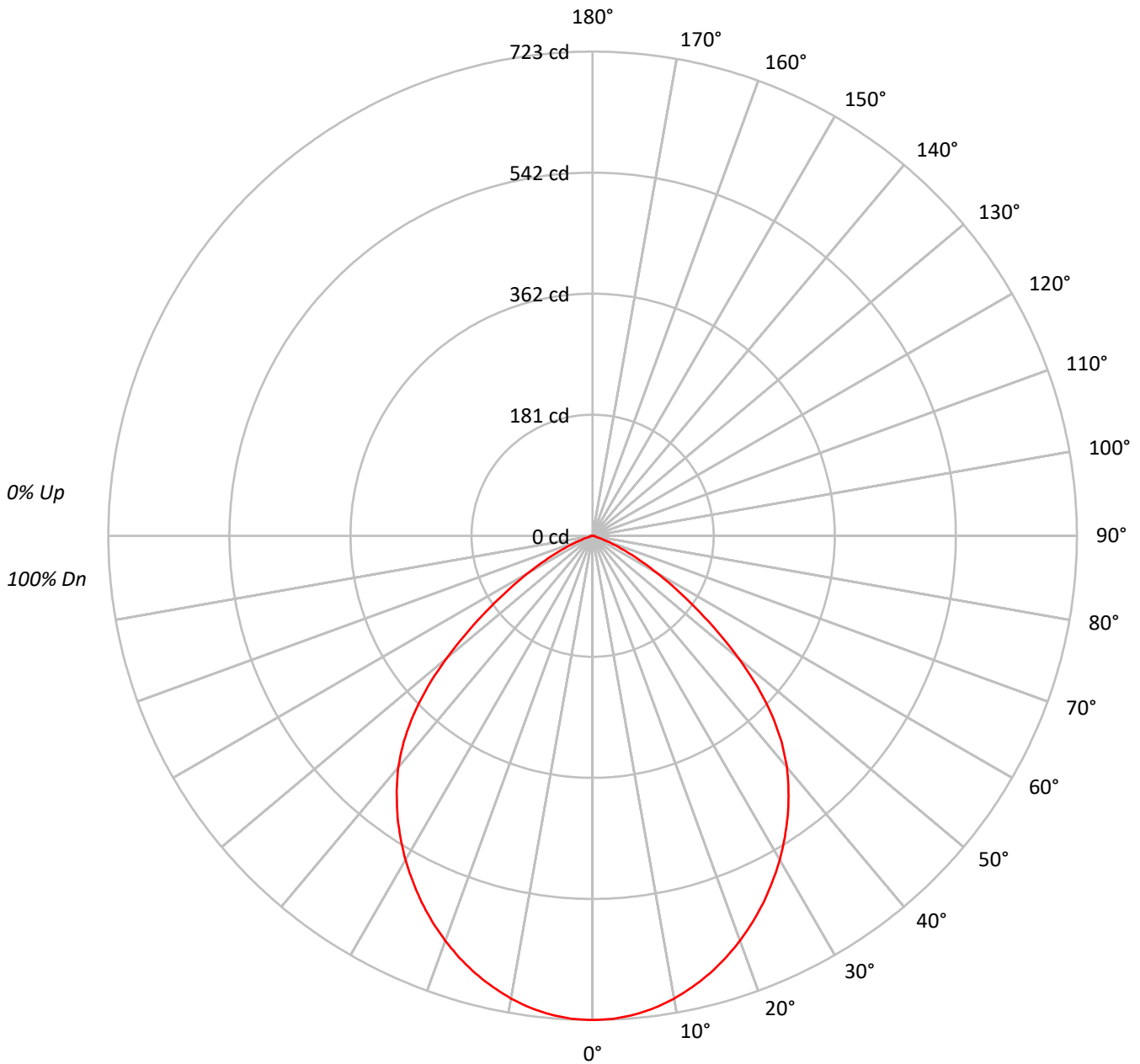
Lumens per Lamp: N/A
Luminaire Lumens: 1377.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	88823
5°	88521
10°	87549
15°	86042
20°	84117
25°	81875
30°	79285
35°	76233
40°	72393
45°	65813
50°	54337
55°	40010
60°	27151
65°	15901
70°	6286
75°	1424
80°	1839
85°	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	4.9
10°-20°	190.5	13.8
20°-30°	277.9	20.2
30°-40°	317.2	23.0
40°-50°	288.3	20.9
50°-60°	170.0	12.3
60°-70°	57.0	4.1
70°-80°	6.0	0.4
80°-90°	2.1	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°	536.4	39.0
0°-40°	853.5	62.0
0°-60°	1311.9	95.3
0°-90°	1377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1377.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	723	
5°	718	68
15°	676	190
25°	604	278
35°	508	317
45°	379	288
55°	187	170
65°	55	57
75°	3	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	723.0
2.5°	721.9
5°	717.8
7.5°	711.1
10°	701.8
12.5°	689.9
15°	676.5
17.5°	660.9
20°	643.4
22.5°	624.4
25°	604.0
27.5°	581.6
30°	558.9
32.5°	534.0
35°	508.3
37.5°	480.4
40°	451.4
42.5°	417.5
45°	378.8
47.5°	334.2
50°	284.3
52.5°	234.4
55°	186.8
57.5°	146.2
60°	110.5
62.5°	80.0
65°	54.7
67.5°	33.5
70°	17.5
72.5°	6.7
75°	3.0
77.5°	3.0
80°	2.6
82.5°	2.2
85°	2.2
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)