

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: P839807

Luminaire Tested: **LDS4C20D010 EU4209030 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839807
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 4LBCSMMS
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

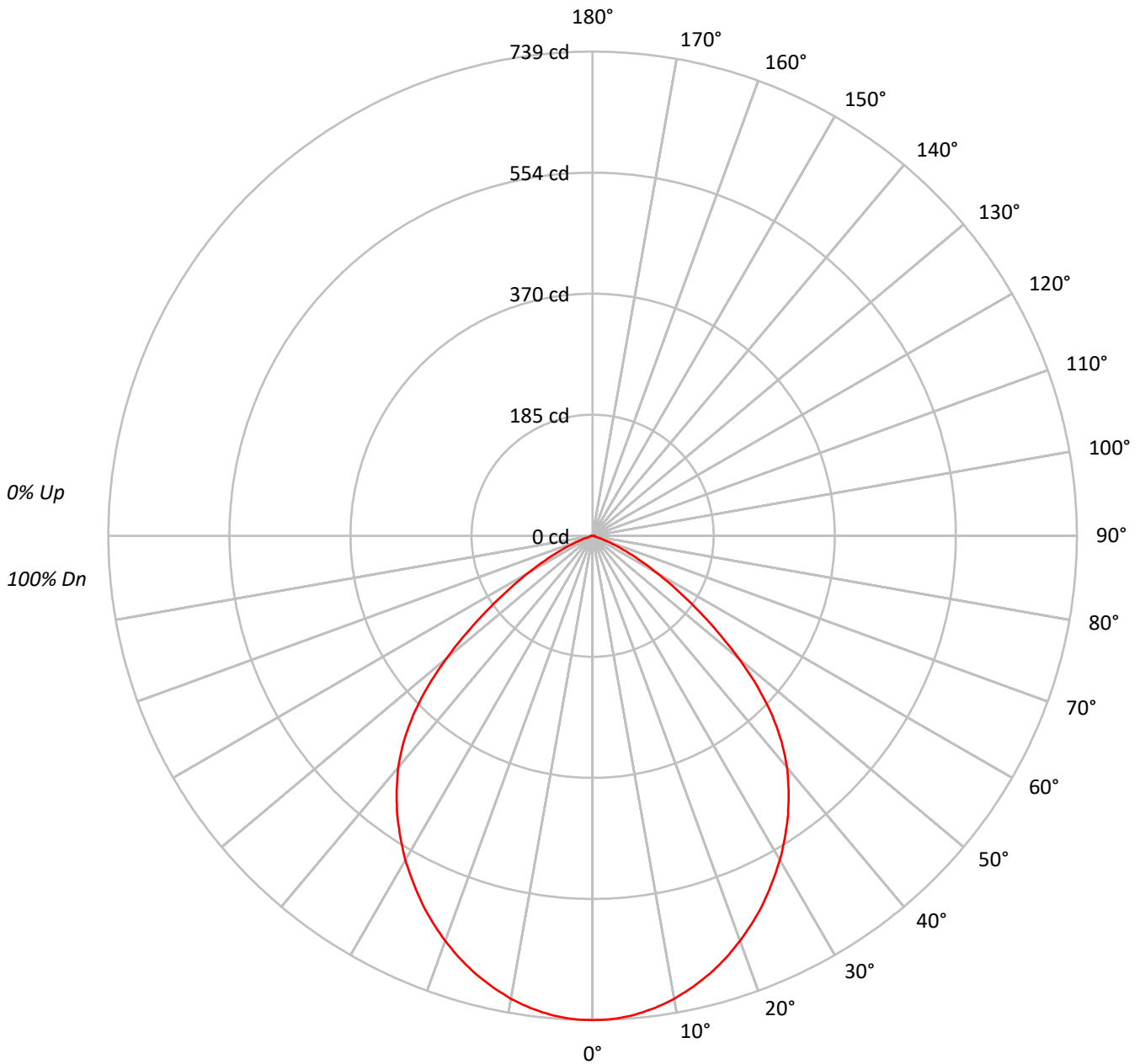
Lumens per Lamp: N/A
Luminaire Lumens: 1408.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	66	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°	90826
5°	90519
10°	89520
15°	87988
20°	86012
25°	83718
30°	81072
35°	77958
40°	74013
45°	67307
50°	55560
55°	40910
60°	27765
65°	16250
70°	6430
75°	1424
80°	1910
85°	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	4.9
10°-20°	194.8	13.8
20°-30°	284.1	20.2
30°-40°	324.3	23.0
40°-50°	294.8	20.9
50°-60°	173.9	12.3
60°-70°	58.3	4.1
70°-80°	6.1	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°	548.5	39.0
0°-40°	872.8	62.0
0°-60°	1341.5	95.3
0°-90°	1408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1408.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	739	
5°	734	70
15°	692	195
25°	618	284
35°	520	324
45°	387	295
55°	191	174
65°	56	58
75°	3	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	739.3
2.5°	738.2
5°	734.0
7.5°	727.1
10°	717.6
12.5°	705.5
15°	691.8
17.5°	675.8
20°	657.9
22.5°	638.5
25°	617.6
27.5°	594.7
30°	571.5
32.5°	546.0
35°	519.8
37.5°	491.2
40°	461.5
42.5°	426.9
45°	387.4
47.5°	341.7
50°	290.7
52.5°	239.7
55°	191.0
57.5°	149.5
60°	113.0
62.5°	81.8
65°	55.9
67.5°	34.2
70°	17.9
72.5°	6.8
75°	3.0
77.5°	3.0
80°	2.7
82.5°	2.3
85°	2.3
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)