

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: P839939

Luminaire Tested: **LDS4C30D010 EU4309050 4LBPSMMS**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839939
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: LDS4C30D010 EU4309050 4LBPSMMS
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

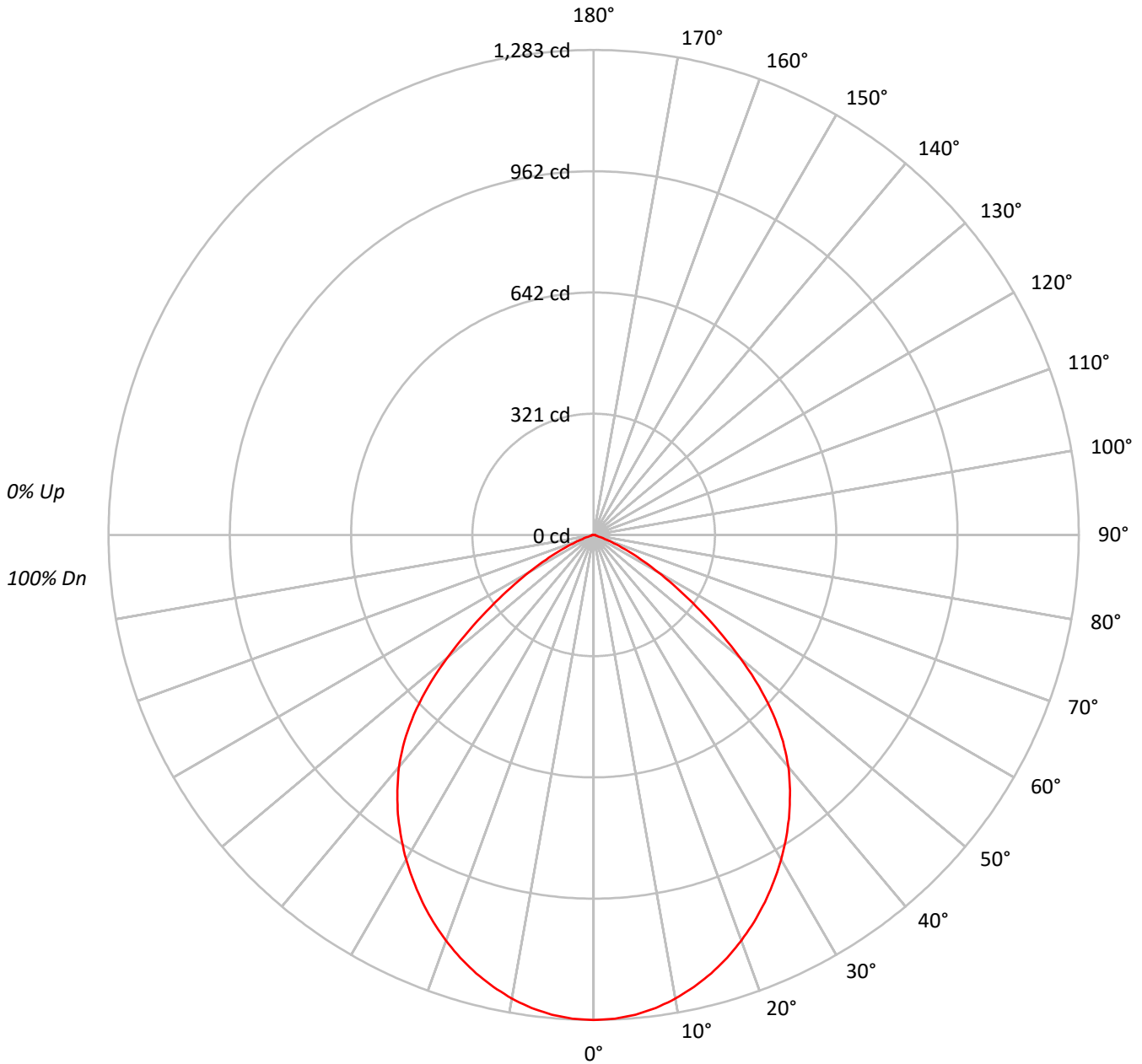
Lumens per Lamp: N/A
Luminaire Lumens: 2444.1 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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			
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°	157658
5°	157126
10°	155399
15°	152714
20°	149303
25°	145300
30°	140724
35°	135309
40°	128492
45°	116823
50°	96442
55°	71025
60°	48208
65°	28227
70°	11135
75°	2516
80°	3254
85°	5638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	4.9
10°-20°	338.1	13.8
20°-30°	493.2	20.2
30°-40°	562.9	23.0
40°-50°	511.8	20.9
50°-60°	301.9	12.4
60°-70°	101.2	4.1
70°-80°	10.6	0.4
80°-90°	3.7	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°	952.0	39.0
0°-40°	1514.9	62.0
0°-60°	2328.6	95.3
0°-90°	2444.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2444.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1283	
5°	1274	121
15°	1201	338
25°	1072	493
35°	902	563
45°	672	512
55°	332	302
65°	97	101
75°	5	11
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1283.3
2.5°	1281.3
5°	1274.1
7.5°	1262.2
10°	1245.7
12.5°	1224.5
15°	1200.7
17.5°	1173.0
20°	1142.0
22.5°	1108.3
25°	1071.9
27.5°	1032.3
30°	992.0
32.5°	947.8
35°	902.2
37.5°	852.7
40°	801.2
42.5°	741.1
45°	672.4
47.5°	593.1
50°	504.6
52.5°	416.1
55°	331.6
57.5°	259.6
60°	196.2
62.5°	142.0
65°	97.1
67.5°	59.4
70°	31.0
72.5°	11.9
75°	5.3
77.5°	5.3
80°	4.6
82.5°	4.0
85°	4.0
87.5°	3.3
90°	0.0



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— 0°-180°







(END OF REPORT)