

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: P839812

Luminaire Tested: **LDS4C20D010 EU4209030 4LBSH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C20D010 EU4209030 4LBSH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

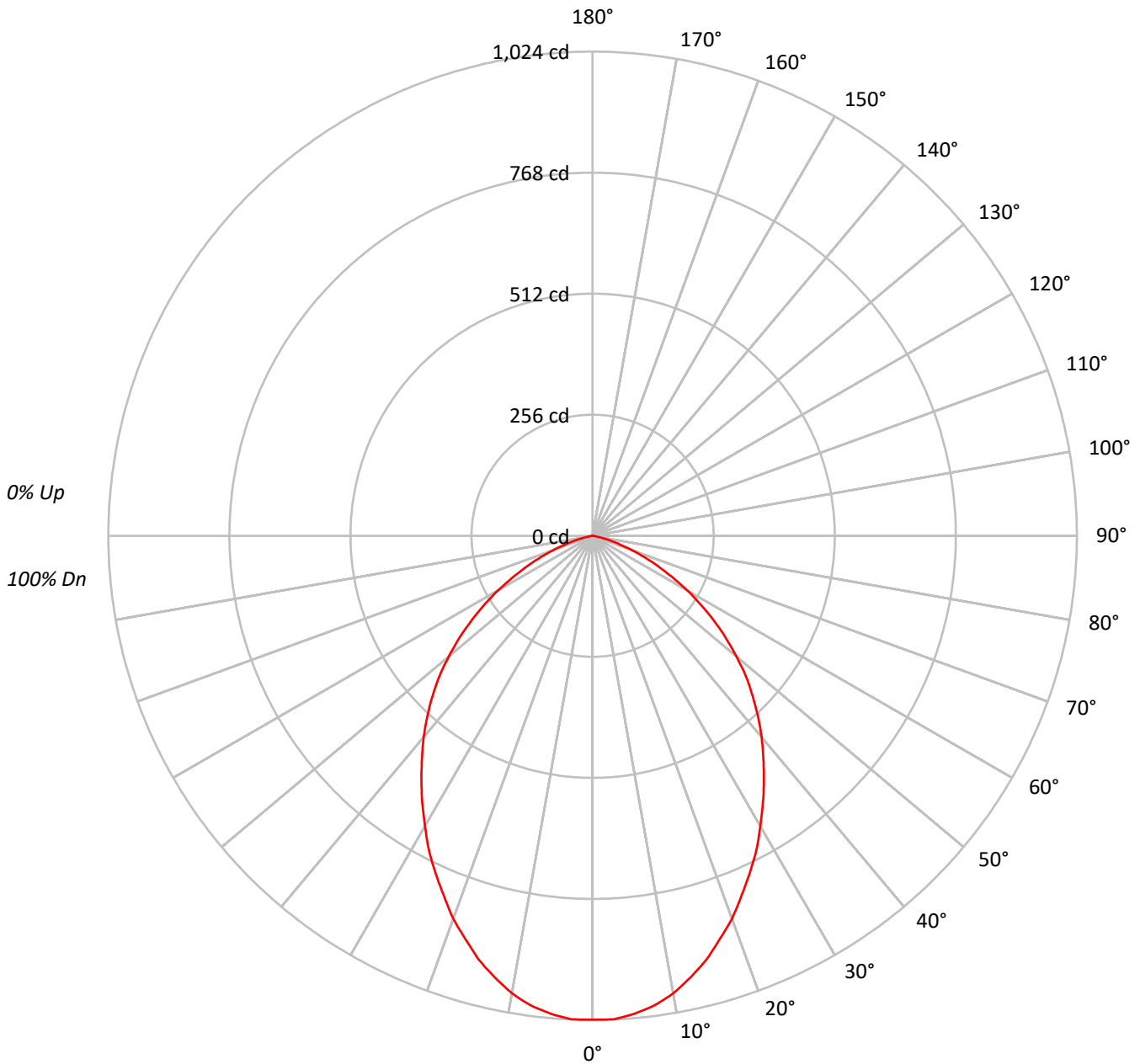
Lumens per Lamp: N/A
Luminaire Lumens: 1957.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	125741
5°	125160
10°	122578
15°	118119
20°	112683
25°	106613
30°	100564
35°	94680
40°	89152
45°	83100
50°	75781
55°	66934
60°	56660
65°	44477
70°	31753
75°	17373
80°	3042
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	4.9
10°-20°	260.6	13.3
20°-30°	361.9	18.5
30°-40°	394.9	20.2
40°-50°	368.4	18.8
50°-60°	279.6	14.3
60°-70°	153.1	7.8
70°-80°	42.1	2.2
80°-90°	0.6	0.0
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°	718.3	36.7
0°-40°	1113.2	56.9
0°-60°	1761.2	90.0
0°-90°	1957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1024	
5°	1015	96
15°	929	261
25°	786	362
35°	631	395
45°	478	368
55°	312	280
65°	153	153
75°	37	42
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1023.5
2.5°	1023.5
5°	1014.9
7.5°	1002.0
10°	982.6
12.5°	956.7
15°	928.7
17.5°	894.3
20°	861.9
22.5°	823.1
25°	786.5
27.5°	749.9
30°	708.9
32.5°	670.1
35°	631.3
37.5°	592.6
40°	555.9
42.5°	517.1
45°	478.3
47.5°	439.6
50°	396.5
52.5°	355.5
55°	312.5
57.5°	271.5
60°	230.6
62.5°	189.6
65°	153.0
67.5°	118.5
70°	88.4
72.5°	60.3
75°	36.6
77.5°	17.2
80°	4.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)