

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: P840022

Luminaire Tested: **LDS4C40D010 EU4409035 4LBSH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840022
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: LDS4C40D010 EU4409035 4LBSH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

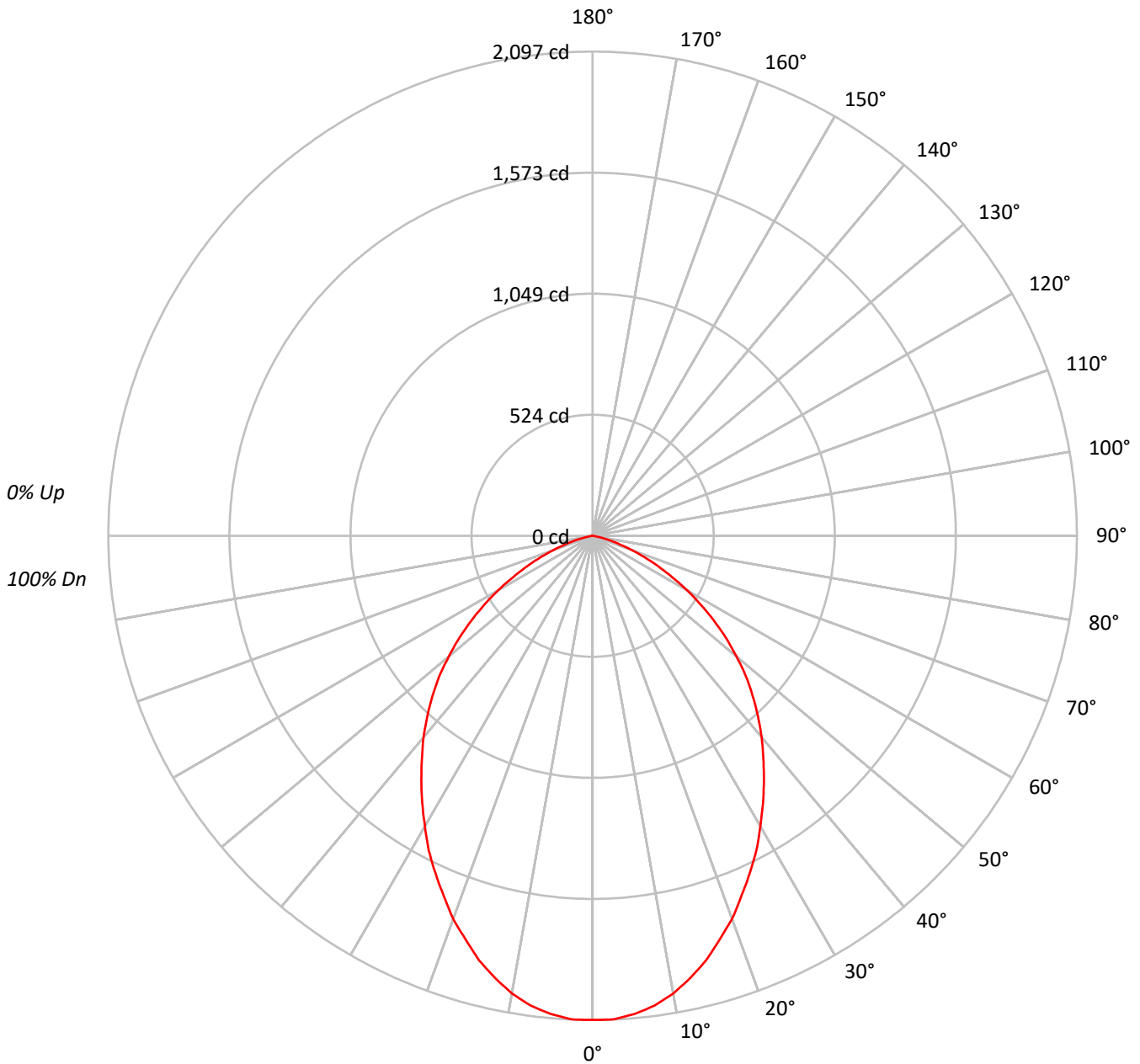
Lumens per Lamp: N/A
Luminaire Lumens: 4009.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	257587
5°	256388
10°	251094
15°	241974
20°	230831
25°	218391
30°	206008
35°	193964
40°	182634
45°	170249
50°	155233
55°	137102
60°	116047
65°	91104
70°	65015
75°	35648
80°	6297
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	4.9
10°-20°	533.8	13.3
20°-30°	741.3	18.5
30°-40°	809.0	20.2
40°-50°	754.6	18.8
50°-60°	572.8	14.3
60°-70°	313.6	7.8
70°-80°	86.3	2.2
80°-90°	1.2	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°	1471.5	36.7
0°-40°	2280.5	56.9
0°-60°	3607.9	90.0
0°-90°	4009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4009.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2097	
5°	2079	196
15°	1902	534
25°	1611	741
35°	1293	809
45°	980	755
55°	640	573
65°	313	314
75°	75	86
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2096.7
2.5°	2096.7
5°	2079.0
7.5°	2052.6
10°	2012.8
12.5°	1959.9
15°	1902.5
17.5°	1831.9
20°	1765.6
22.5°	1686.2
25°	1611.1
27.5°	1536.1
30°	1452.2
32.5°	1372.8
35°	1293.3
37.5°	1213.9
40°	1138.8
42.5°	1059.4
45°	979.9
47.5°	900.5
50°	812.2
52.5°	728.3
55°	640.1
57.5°	556.1
60°	472.3
62.5°	388.5
65°	313.4
67.5°	242.7
70°	181.0
72.5°	123.6
75°	75.1
77.5°	35.3
80°	8.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)