

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: P840030

Luminaire Tested: **LDS4C40D010 EU4409040 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840030
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: LDS4C40D010 EU4409040 4LBSB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

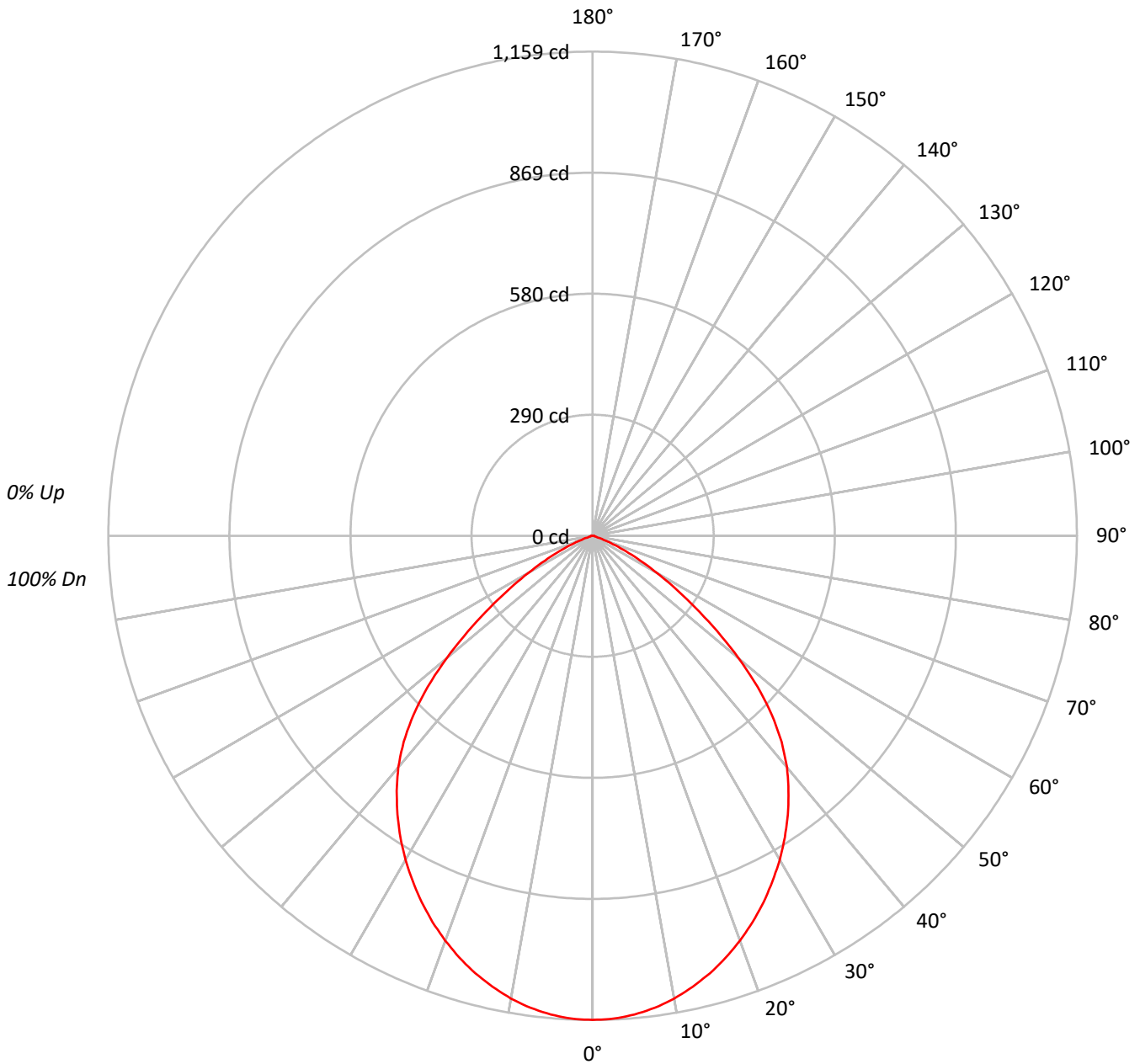
Lumens per Lamp: N/A
Luminaire Lumens: 2207.0 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
RC	80									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°	142375
5°	141883
10°	140330
15°	137909
20°	134817
25°	131216
30°	127077
35°	122186
40°	116030
45°	105496
50°	87096
55°	64128
60°	43515
65°	25494
70°	10058
75°	2278
80°	2971
85°	5075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	4.9
10°-20°	305.3	13.8
20°-30°	445.3	20.2
30°-40°	508.3	23.0
40°-50°	462.2	20.9
50°-60°	272.6	12.3
60°-70°	91.4	4.1
70°-80°	9.6	0.4
80°-90°	3.4	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°	859.7	39.0
0°-40°	1368.0	62.0
0°-60°	2102.7	95.3
0°-90°	2207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2207.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1159	
5°	1150	109
15°	1084	305
25°	968	445
35°	815	508
45°	607	462
55°	299	273
65°	88	91
75°	5	10
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1158.9
2.5°	1157.1
5°	1150.5
7.5°	1139.8
10°	1124.9
12.5°	1105.8
15°	1084.3
17.5°	1059.3
20°	1031.2
22.5°	1000.8
25°	968.0
27.5°	932.2
30°	895.8
32.5°	855.9
35°	814.7
37.5°	770.0
40°	723.5
42.5°	669.2
45°	607.2
47.5°	535.6
50°	455.7
52.5°	375.7
55°	299.4
57.5°	234.4
60°	177.1
62.5°	128.2
65°	87.7
67.5°	53.7
70°	28.0
72.5°	10.7
75°	4.8
77.5°	4.8
80°	4.2
82.5°	3.6
85°	3.6
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)