

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: P839730

Luminaire Tested: **LDS4C10D010 EU4109040 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839730
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: LDS4C10D010 EU4109040 4LBSB
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

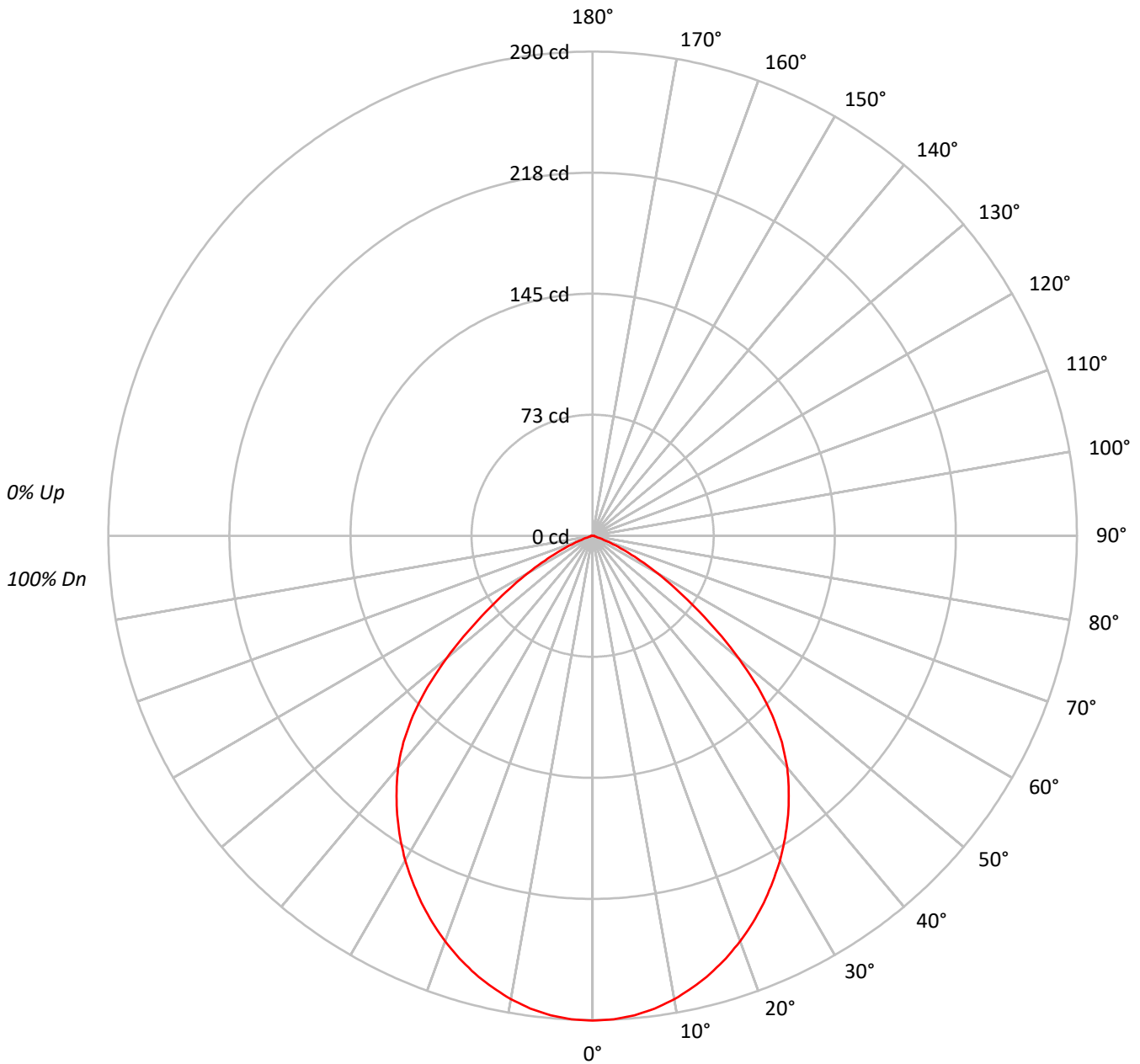
Lumens per Lamp: N/A
Luminaire Lumens: 553.0 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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	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	66	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°	35677
5°	35554
10°	35167
15°	34557
20°	33783
25°	32872
30°	31847
35°	30610
40°	29076
45°	26426
50°	21827
55°	16064
60°	10909
65°	6395
70°	2514
75°	570
80°	707
85°	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	4.9
10°-20°	76.5	13.8
20°-30°	111.6	20.2
30°-40°	127.4	23.0
40°-50°	115.8	20.9
50°-60°	68.3	12.3
60°-70°	22.9	4.1
70°-80°	2.4	0.4
80°-90°	0.8	0.1
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°	215.4	39.0
0°-40°	342.8	62.0
0°-60°	526.9	95.3
0°-90°	553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	553.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	290	
5°	288	27
15°	272	77
25°	242	112
35°	204	127
45°	152	116
55°	75	68
65°	22	23
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	290.4
2.5°	289.9
5°	288.3
7.5°	285.6
10°	281.9
12.5°	277.1
15°	271.7
17.5°	265.4
20°	258.4
22.5°	250.8
25°	242.5
27.5°	233.6
30°	224.5
32.5°	214.5
35°	204.1
37.5°	192.9
40°	181.3
42.5°	167.7
45°	152.1
47.5°	134.2
50°	114.2
52.5°	94.1
55°	75.0
57.5°	58.7
60°	44.4
62.5°	32.1
65°	22.0
67.5°	13.4
70°	7.0
72.5°	2.7
75°	1.2
77.5°	1.2
80°	1.0
82.5°	0.9
85°	0.9
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)