

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: P839672

Luminaire Tested: **LDS4C100D010 EU41009035 4LBSH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839672
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: LDS4C100D010 EU41009035 4LBSH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

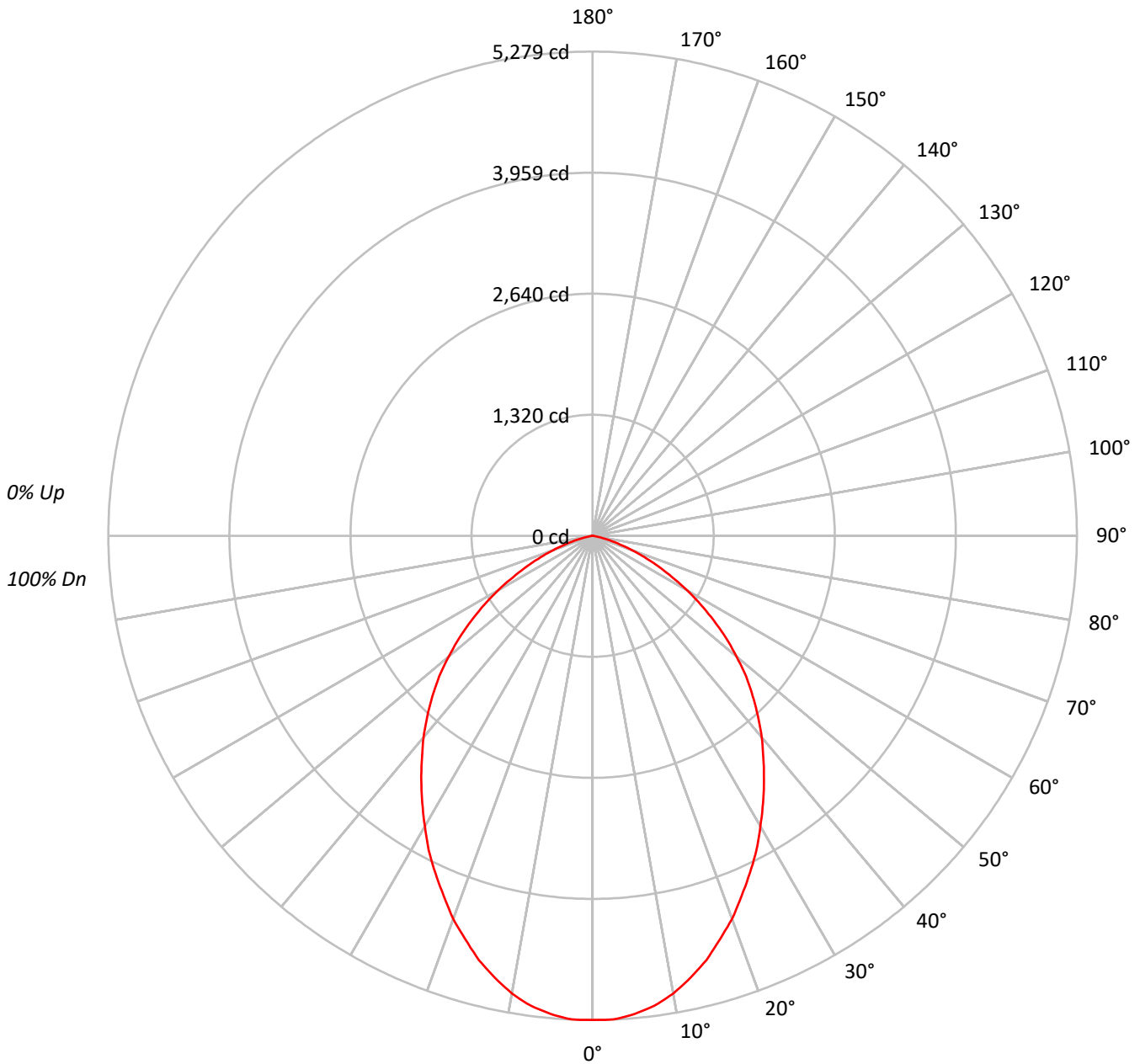
Lumens per Lamp: N/A
Luminaire Lumens: 10094.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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°	648556
5°	645558
10°	632226
15°	609252
20°	581196
25°	549874
30°	518693
35°	488383
40°	459840
45°	428654
50°	390872
55°	345186
60°	292195
65°	229388
70°	163723
75°	89713
80°	15777
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.5	4.9
10°-20°	1344.0	13.3
20°-30°	1866.5	18.5
30°-40°	2036.8	20.2
40°-50°	1900.0	18.8
50°-60°	1442.2	14.3
60°-70°	789.7	7.8
70°-80°	217.3	2.2
80°-90°	3.0	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°	3705.0	36.7
0°-40°	5741.8	56.9
0°-60°	9084.0	90.0
0°-90°	10094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10094.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5279	
5°	5235	494
15°	4790	1344
25°	4056	1867
35°	3256	2037
45°	2467	1900
55°	1612	1442
65°	789	790
75°	189	217
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5279.1
2.5°	5279.1
5°	5234.7
7.5°	5168.2
10°	5068.0
12.5°	4934.7
15°	4790.2
17.5°	4612.5
20°	4445.5
22.5°	4245.5
25°	4056.5
27.5°	3867.8
30°	3656.4
32.5°	3456.4
35°	3256.4
37.5°	3056.3
40°	2867.3
42.5°	2667.3
45°	2467.2
47.5°	2267.2
50°	2045.1
52.5°	1833.7
55°	1611.6
57.5°	1400.3
60°	1189.2
62.5°	978.1
65°	789.1
67.5°	611.2
70°	455.8
72.5°	311.2
75°	189.0
77.5°	88.8
80°	22.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)