

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: P839406

Luminaire Tested: **LD4C80D010 EU4809030 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C80D010 EU4809030 4LBSLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

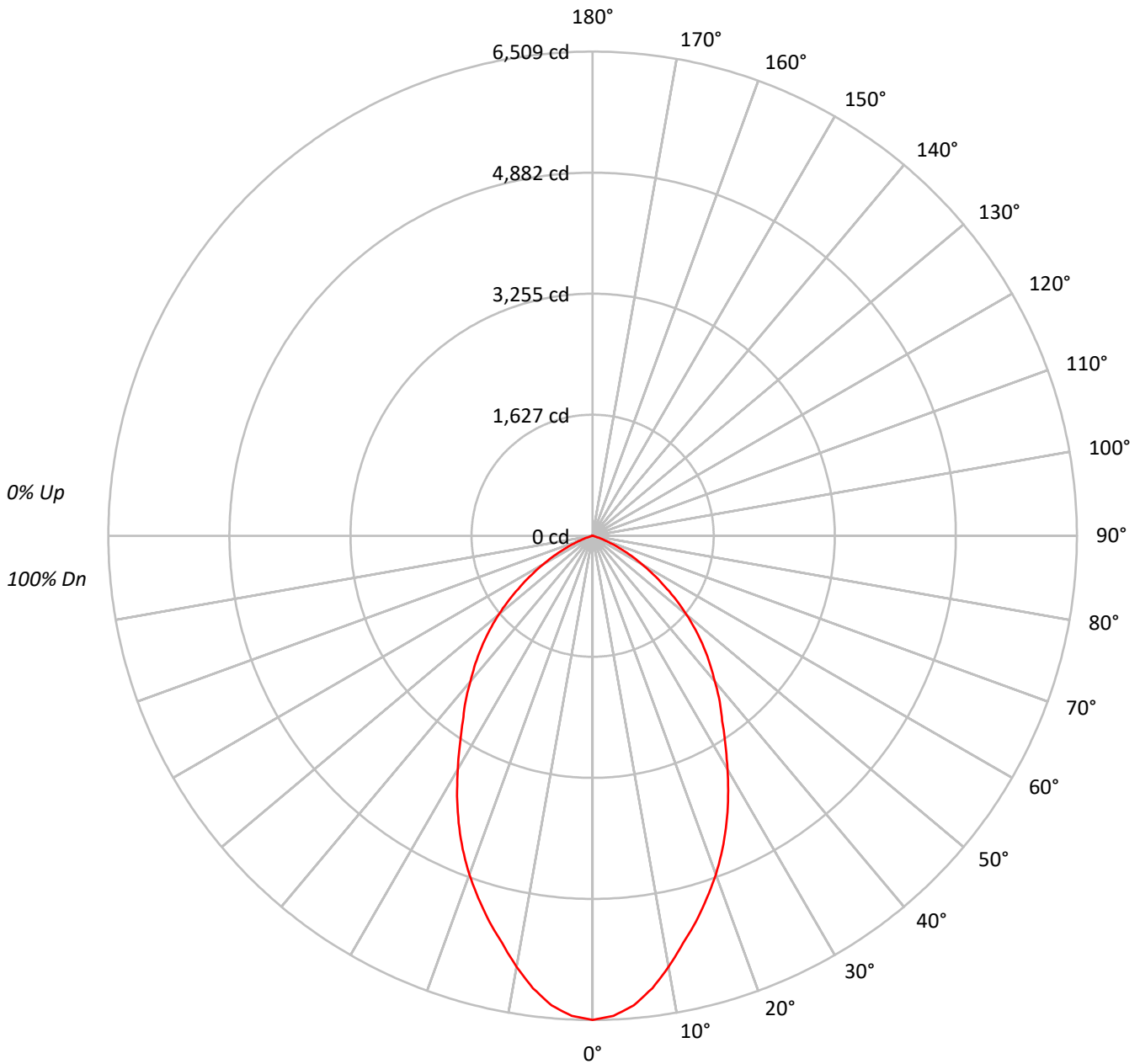
Lumens per Lamp: N/A
Luminaire Lumens: 9116.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80	80	80	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71	71	71	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	63	63	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57	57	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51	51	51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46	46	46	46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42	42	42	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	799666
5°	781558
10°	733946
15°	682830
20°	633295
25°	577297
30°	513955
35°	455553
40°	409450
45°	366455
50°	314383
55°	252892
60°	188433
65°	120290
70°	57975
75°	9636
80°	7075
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.2	6.5
10°-20°	1505.3	16.5
20°-30°	1950.5	21.4
30°-40°	1911.2	21.0
40°-50°	1619.9	17.8
50°-60°	1061.9	11.6
60°-70°	426.8	4.7
70°-80°	48.8	0.5
80°-90°	1.4	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°	4046.0	44.4
0°-40°	5957.2	65.3
0°-60°	8639.0	94.8
0°-90°	9116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9116.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6509	
5°	6338	590
15°	5369	1505
25°	4259	1951
35°	3038	1911
45°	2109	1620
55°	1181	1062
65°	414	427
75°	20	49
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6509.1
2.5°	6458.6
5°	6337.5
7.5°	6135.6
10°	5883.4
12.5°	5610.9
15°	5368.7
17.5°	5106.5
20°	4844.0
22.5°	4561.5
25°	4258.8
27.5°	3945.8
30°	3623.0
32.5°	3320.2
35°	3037.5
37.5°	2805.6
40°	2553.1
42.5°	2331.2
45°	2109.2
47.5°	1877.1
50°	1644.9
52.5°	1412.9
55°	1180.7
57.5°	968.8
60°	766.9
62.5°	585.2
65°	413.8
67.5°	272.5
70°	161.4
72.5°	70.6
75°	20.3
77.5°	10.0
80°	10.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)