

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: P839415

Luminaire Tested: **LD4C80D010 EU4809050 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839415
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 EU4809050 4LBSLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

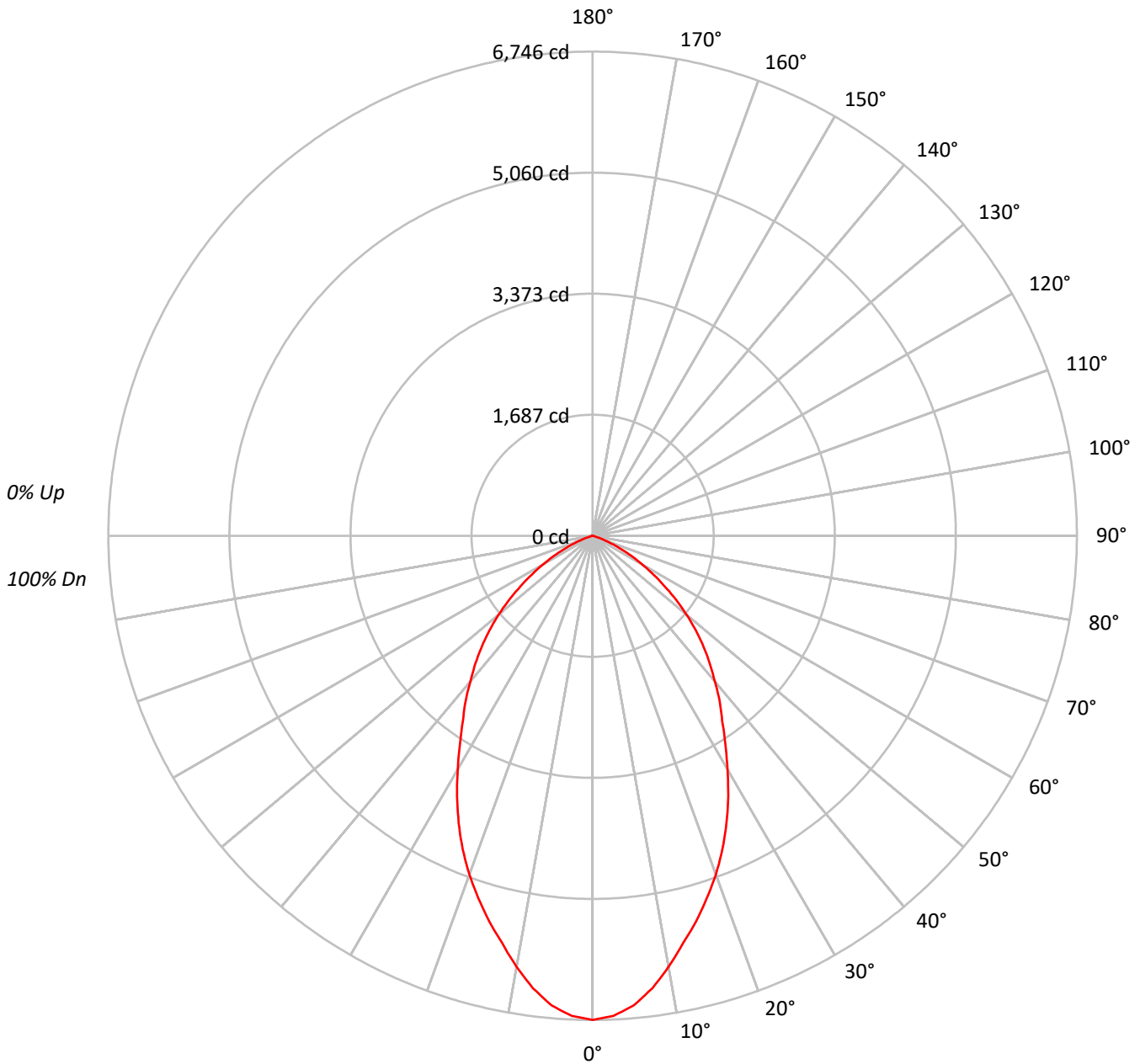
Lumens per Lamp: N/A
Luminaire Lumens: 9448.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	828794
5°	810021
10°	760668
15°	707695
20°	656357
25°	598321
30°	532666
35°	472141
40°	424365
45°	379815
50°	325832
55°	262102
60°	195288
65°	124680
70°	60094
75°	9968
80°	7358
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.7	6.5
10°-20°	1560.1	16.5
20°-30°	2021.6	21.4
30°-40°	1980.8	21.0
40°-50°	1678.9	17.8
50°-60°	1100.6	11.6
60°-70°	442.4	4.7
70°-80°	50.6	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°	4193.3	44.4
0°-40°	6174.1	65.3
0°-60°	8953.6	94.8
0°-90°	9448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9448.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6746	
5°	6568	612
15°	5564	1560
25°	4414	2022
35°	3148	1981
45°	2186	1679
55°	1224	1101
65°	429	442
75°	21	51
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6746.2
2.5°	6693.8
5°	6568.3
7.5°	6359.0
10°	6097.6
12.5°	5815.2
15°	5564.2
17.5°	5292.4
20°	5020.4
22.5°	4727.6
25°	4413.9
27.5°	4089.5
30°	3754.9
32.5°	3441.2
35°	3148.1
37.5°	2907.7
40°	2646.1
42.5°	2416.1
45°	2186.1
47.5°	1945.4
50°	1704.8
52.5°	1464.4
55°	1223.7
57.5°	1004.1
60°	794.8
62.5°	606.6
65°	428.9
67.5°	282.4
70°	167.3
72.5°	73.1
75°	21.0
77.5°	10.4
80°	10.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)