

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: P843479

Luminaire Tested: **LD4C20DE010B50 EU4C20B50 4LBCSMMS**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206301)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20DE010B50 EU4C20B50 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

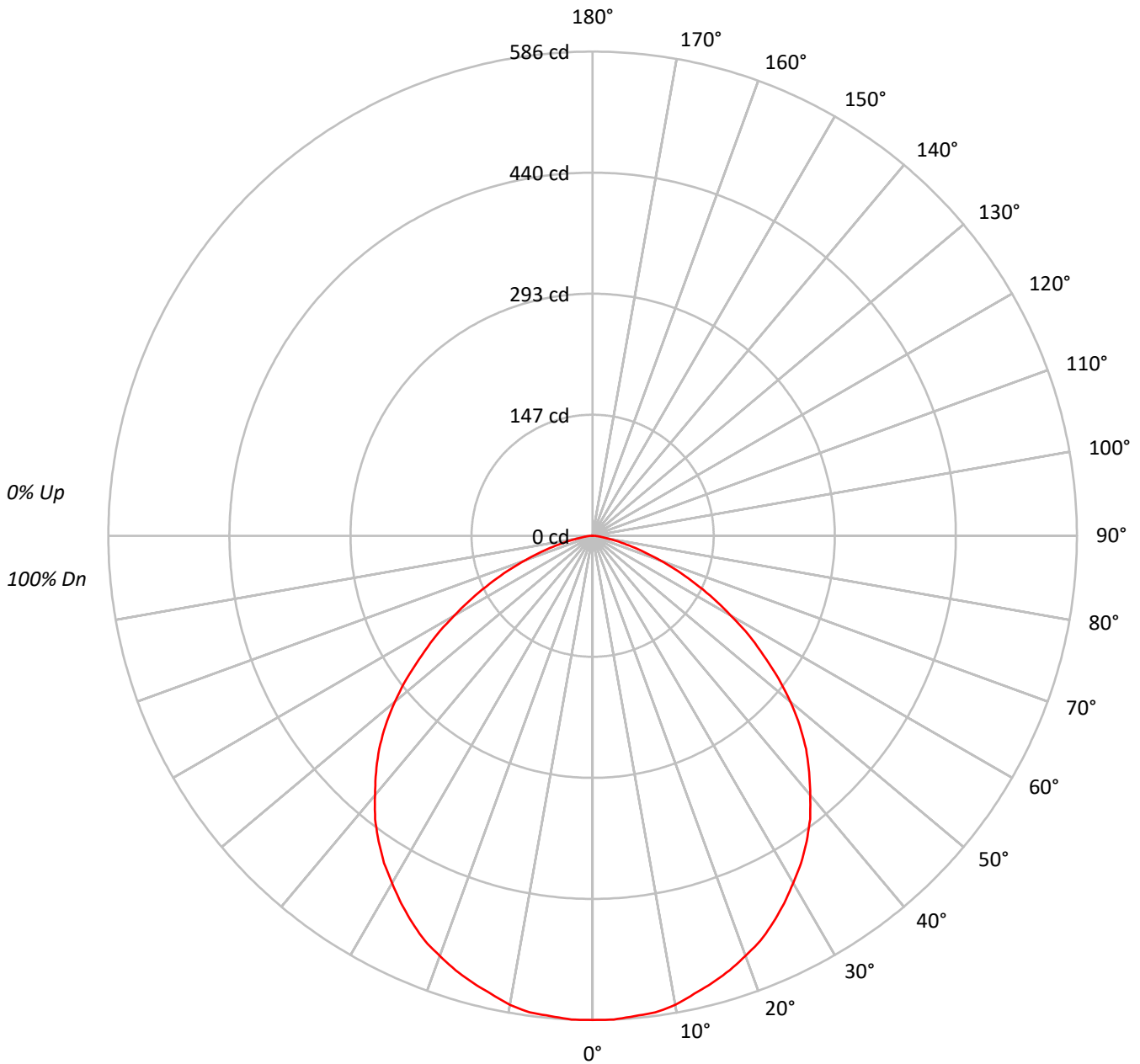
Lumens per Lamp: N/A
Luminaire Lumens: 1435.2 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V):
Input Current (Ain): 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				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
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74			74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63			63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55			55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48			48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37			37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33			33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30			30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27			27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72004
5°	71971
10°	71930
15°	71238
20°	70729
25°	70041
30°	68844
35°	67699
40°	65689
45°	63468
50°	59689
55°	53997
60°	47446
65°	39942
70°	31214
75°	21882
80°	12381
85°	8458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	3.9
10°-20°	158.1	11.0
20°-30°	237.9	16.6
30°-40°	281.9	19.6
40°-50°	280.5	19.5
50°-60°	226.1	15.8
60°-70°	136.8	9.5
70°-80°	50.8	3.5
80°-90°	7.5	0.5
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°	451.5	31.5
0°-40°	733.4	51.1
0°-60°	1240.0	86.4
0°-90°	1435.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	586	
5°	584	56
15°	560	158
25°	517	238
35°	451	282
45°	365	281
55°	252	226
65°	137	137
75°	46	51
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	586.1
2.5°	586.1
5°	583.6
7.5°	581.9
10°	576.6
12.5°	567.9
15°	560.1
17.5°	551.5
20°	541.0
22.5°	530.6
25°	516.7
27.5°	501.7
30°	485.3
32.5°	469.6
35°	451.4
37.5°	432.3
40°	409.6
42.5°	387.9
45°	365.3
47.5°	340.0
50°	312.3
52.5°	283.4
55°	252.1
57.5°	224.4
60°	193.1
62.5°	165.2
65°	137.4
67.5°	111.3
70°	86.9
72.5°	65.3
75°	46.1
77.5°	29.6
80°	17.5
82.5°	10.5
85°	6.0
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)