

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: P843490

Luminaire Tested: **LD4C20DE010B2750 EU4C20B50 4LBWH**

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-08
Report Number: P843490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20DE010B2750 EU4C20B50 4LBWH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

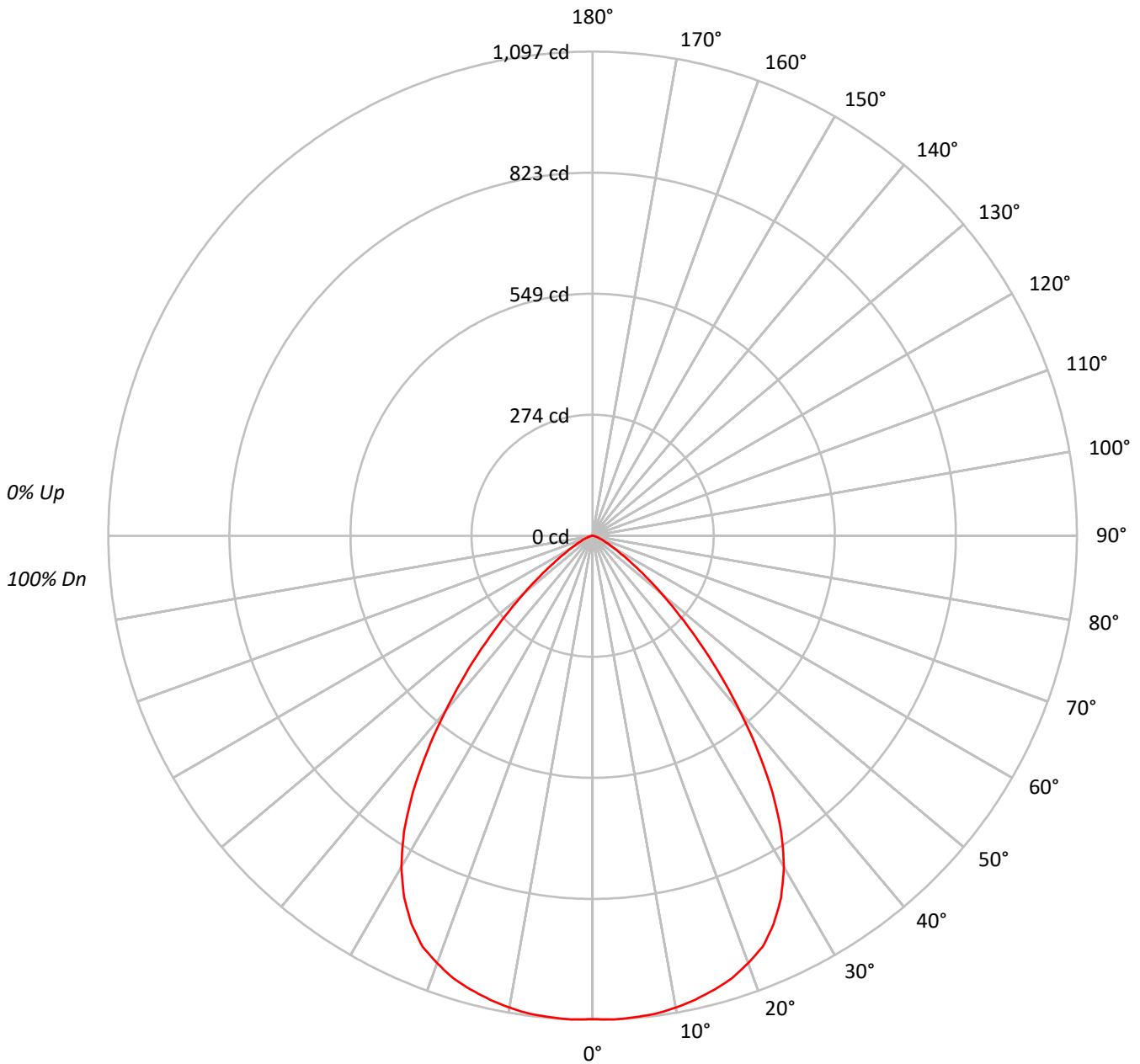
Lumens per Lamp: N/A
Luminaire Lumens: 1698.6 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82				82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61				61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55				55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50				50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43				43
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134512
5°	135026
10°	135427
15°	135429
20°	134686
25°	131541
30°	122935
35°	106468
40°	83170
45°	59663
50°	38779
55°	23197
60°	13588
65°	8721
70°	5819
75°	4367
80°	3325
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	6.1
10°-20°	300.4	17.7
20°-30°	443.3	26.1
30°-40°	437.5	25.8
40°-50°	267.7	15.8
50°-60°	102.6	6.0
60°-70°	32.1	1.9
70°-80°	9.4	0.6
80°-90°	1.3	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°	848.0	49.9
0°-40°	1285.5	75.7
0°-60°	1655.8	97.5
0°-90°	1698.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1698.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1095	
5°	1095	104
15°	1065	300
25°	970	443
35°	710	437
45°	343	268
55°	108	103
65°	30	32
75°	9	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1094.9
2.5°	1097.1
5°	1094.9
7.5°	1092.5
10°	1085.6
12.5°	1076.4
15°	1064.8
17.5°	1051.0
20°	1030.2
22.5°	1007.3
25°	970.4
27.5°	924.2
30°	866.6
32.5°	795.2
35°	709.9
37.5°	615.3
40°	518.6
42.5°	428.7
45°	343.4
47.5°	267.3
50°	202.9
52.5°	149.9
55°	108.3
57.5°	76.0
60°	55.3
62.5°	41.6
65°	30.0
67.5°	23.1
70°	16.2
72.5°	11.5
75°	9.2
77.5°	4.7
80°	4.7
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)