

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: P843476

Luminaire Tested: **LD4C20DE010B40 EU4C20B40 4LBWH**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843476
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: LD4C20DE010B40 EU4C20B40 4LBWH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

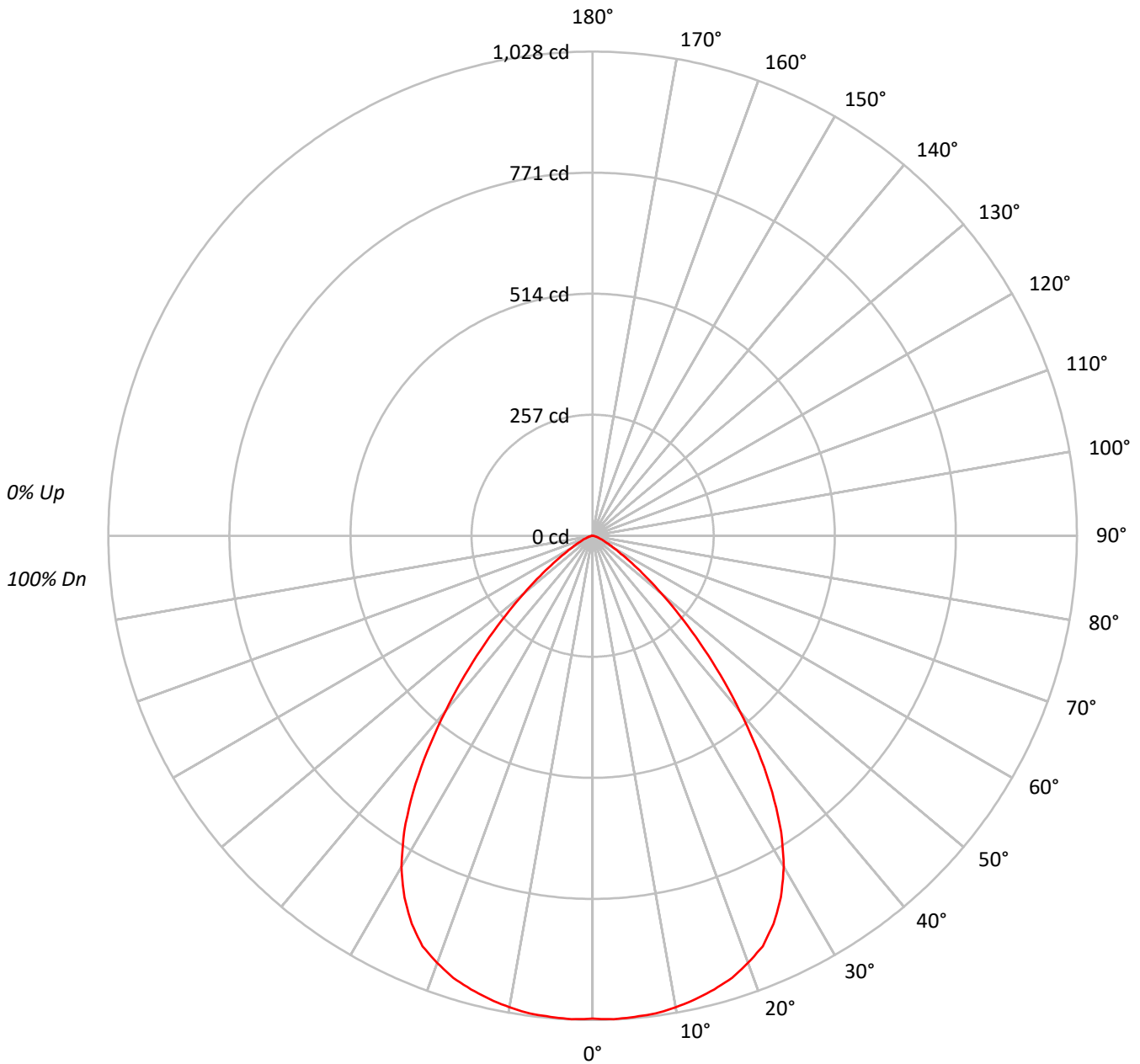
Lumens per Lamp: N/A
Luminaire Lumens: 1590.6 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	125962
5°	126443
10°	126820
15°	126831
20°	126136
25°	123178
30°	115133
35°	99689
40°	77894
45°	55875
50°	36314
55°	21719
60°	12703
65°	8169
70°	5424
75°	4130
80°	3042
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	6.1
10°-20°	281.3	17.7
20°-30°	415.2	26.1
30°-40°	409.7	25.8
40°-50°	250.7	15.8
50°-60°	96.1	6.0
60°-70°	30.0	1.9
70°-80°	8.8	0.6
80°-90°	1.2	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°	794.1	49.9
0°-40°	1203.8	75.7
0°-60°	1550.6	97.5
0°-90°	1590.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1025	
5°	1025	98
15°	997	281
25°	909	415
35°	665	410
45°	322	251
55°	101	96
65°	28	30
75°	9	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1025.3
2.5°	1027.5
5°	1025.3
7.5°	1023.2
10°	1016.6
12.5°	1008.0
15°	997.2
17.5°	984.2
20°	964.8
22.5°	943.3
25°	908.7
27.5°	865.5
30°	811.6
32.5°	744.7
35°	664.7
37.5°	576.3
40°	485.7
42.5°	401.5
45°	321.6
47.5°	250.3
50°	190.0
52.5°	140.3
55°	101.4
57.5°	71.2
60°	51.7
62.5°	38.9
65°	28.1
67.5°	21.6
70°	15.1
72.5°	10.8
75°	8.7
77.5°	4.3
80°	4.3
82.5°	2.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)