

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: P843443

Luminaire Tested: **LD4C20DE010B2750 EU4C20B30 4LBMLI**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208178)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20DE010B2750 EU4C20B30 4LBMLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

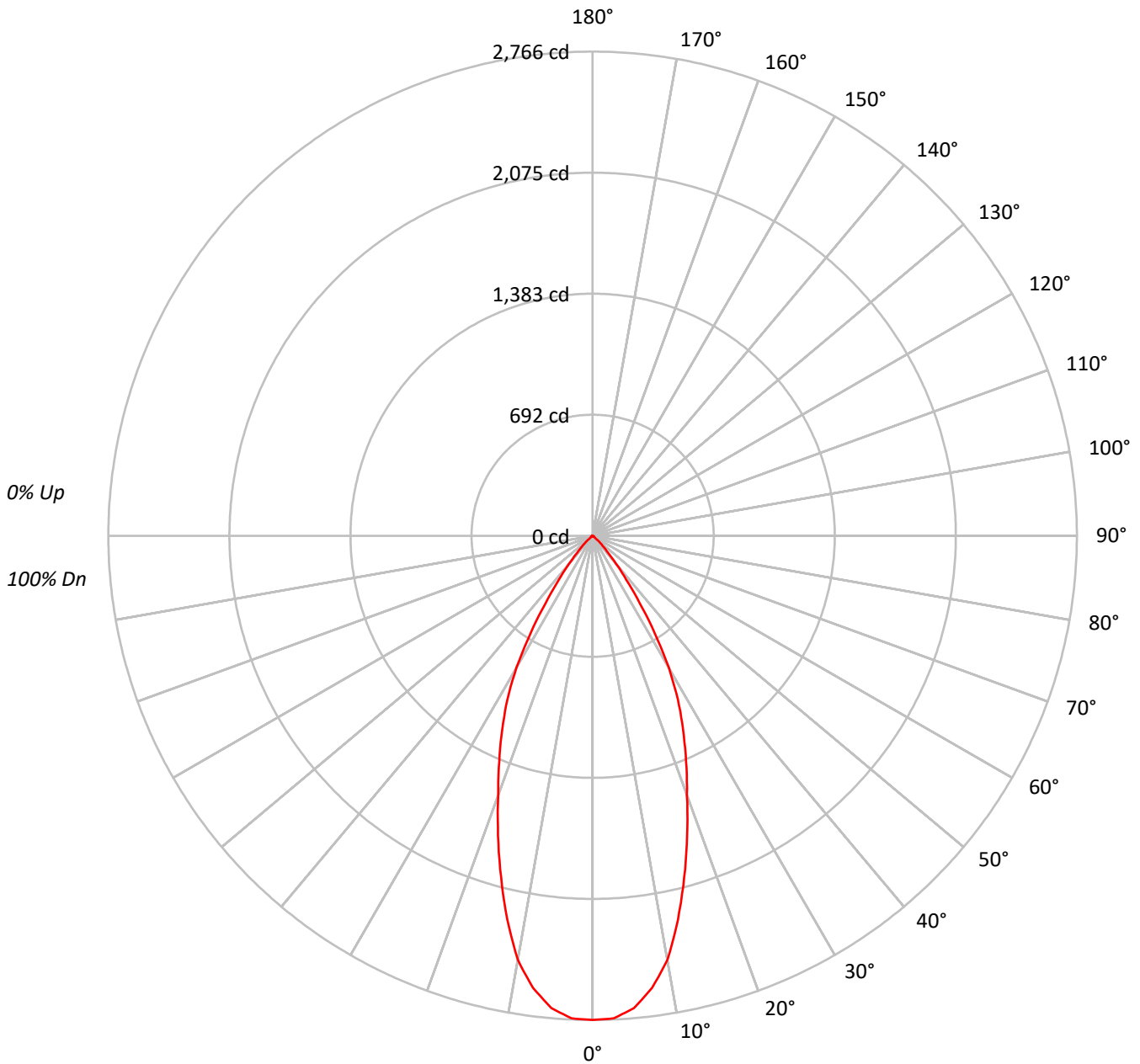
Lumens per Lamp: N/A
Luminaire Lumens: 1754.5 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P843443

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B30 4LBMLI

Luminous Intensity Polar Plot





TEST NUMBER: P843443

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B30 4LBMLI

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78			
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73			
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65			
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62			
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58			
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	339813
5°	334044
10°	306932
15°	257033
20°	205925
25°	165457
30°	123176
35°	70369
40°	33021
45°	14021
50°	4472
55°	2270
60°	1548
65°	1221
70°	754
75°	0
80°	0
85°	0



TEST NUMBER: P843443

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B30 4LBMLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	14.3
10°-20°	559.9	31.9
20°-30°	556.7	31.7
30°-40°	303.2	17.3
40°-50°	70.1	4.0
50°-60°	9.8	0.6
60°-70°	3.6	0.2
70°-80°	0.8	0.0
80°-90°	0.0	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°	1367.0	77.9
0°-40°	1670.2	95.2
0°-60°	1750.1	99.7
0°-90°	1754.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2766	
5°	2709	250
15°	2021	560
25°	1221	557
35°	469	303
45°	81	70
55°	11	10
65°	4	4
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P843443

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B30 4LBMLI

CANDELA DISTRIBUTION (FULL):

	0°
0°	2766.0
2.5°	2759.7
5°	2708.7
7.5°	2604.7
10°	2460.4
12.5°	2248.1
15°	2020.9
17.5°	1796.0
20°	1575.1
22.5°	1394.7
25°	1220.6
27.5°	1055.1
30°	868.3
32.5°	660.3
35°	469.2
37.5°	316.2
40°	205.9
42.5°	129.5
45°	80.7
47.5°	46.7
50°	23.4
52.5°	12.7
55°	10.6
57.5°	6.3
60°	6.3
62.5°	4.2
65°	4.2
67.5°	2.1
70°	2.1
72.5°	2.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)