

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: P843450

Luminaire Tested: **LD4C20DE010B2750 EU4C20B35 4LBCSMB**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843450
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: LD4C20DE010B2750 EU4C20B35 4LBCSMB
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

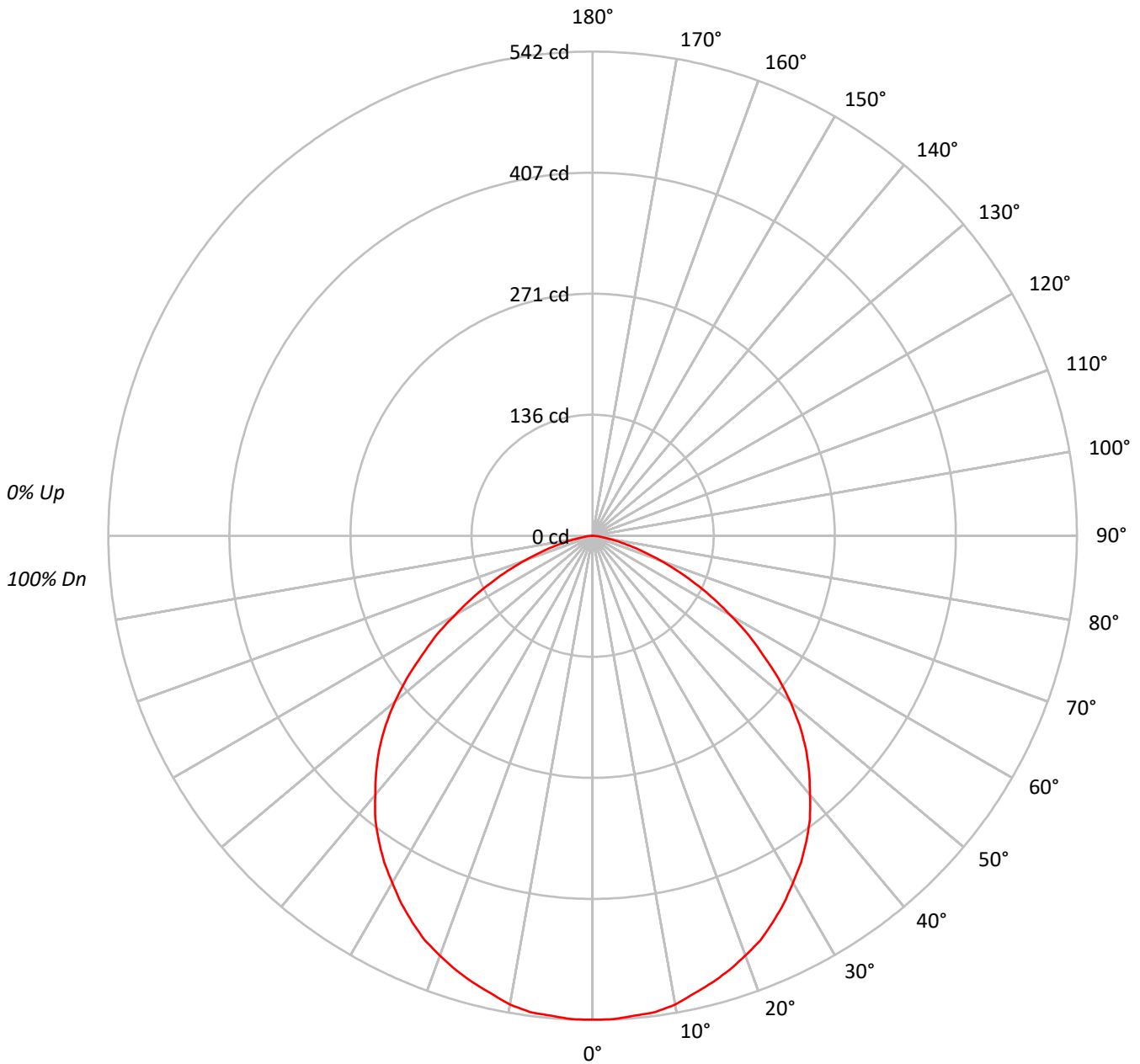
Lumens per Lamp: N/A
Luminaire Lumens: 1326.2 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P843450

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B35 4LBCSMB

Luminous Intensity Polar Plot





TEST NUMBER: P843450

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B35 4LBCSMB

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°	66537
5°	66508
10°	66466
15°	65832
20°	65356
25°	64713
30°	63610
35°	62555
40°	60701
45°	58655
50°	55159
55°	49906
60°	43834
65°	36889
70°	28844
75°	20221
80°	11391
85°	7894



TEST NUMBER: P843450

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B35 4LBCSMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.9
10°-20°	146.1	11.0
20°-30°	219.8	16.6
30°-40°	260.5	19.6
40°-50°	259.2	19.5
50°-60°	209.0	15.8
60°-70°	126.4	9.5
70°-80°	47.0	3.5
80°-90°	6.9	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°	417.2	31.5
0°-40°	677.7	51.1
0°-60°	1145.9	86.4
0°-90°	1326.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	542	
5°	539	51
15°	518	146
25°	477	220
35°	417	260
45°	338	259
55°	233	209
65°	127	126
75°	43	47
85°	6	7
90°	0	



TEST NUMBER: P843450

CATALOG NUMBER: LD4C20DE010B2750 EU4C20B35 4LBCSMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	541.6
2.5°	541.6
5°	539.3
7.5°	537.7
10°	532.8
12.5°	524.8
15°	517.6
17.5°	509.6
20°	499.9
22.5°	490.3
25°	477.4
27.5°	463.7
30°	448.4
32.5°	433.9
35°	417.1
37.5°	399.5
40°	378.5
42.5°	358.5
45°	337.6
47.5°	314.2
50°	288.6
52.5°	262.0
55°	233.0
57.5°	207.4
60°	178.4
62.5°	152.7
65°	126.9
67.5°	102.8
70°	80.3
72.5°	60.3
75°	42.6
77.5°	27.4
80°	16.1
82.5°	9.6
85°	5.6
87.5°	2.3
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)