

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: P843560

Luminaire Tested: **LD4C25DE010B2750 EU4C25B50 4LBWH**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843560
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: LD4C25DE010B2750 EU4C25B50 4LBWH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

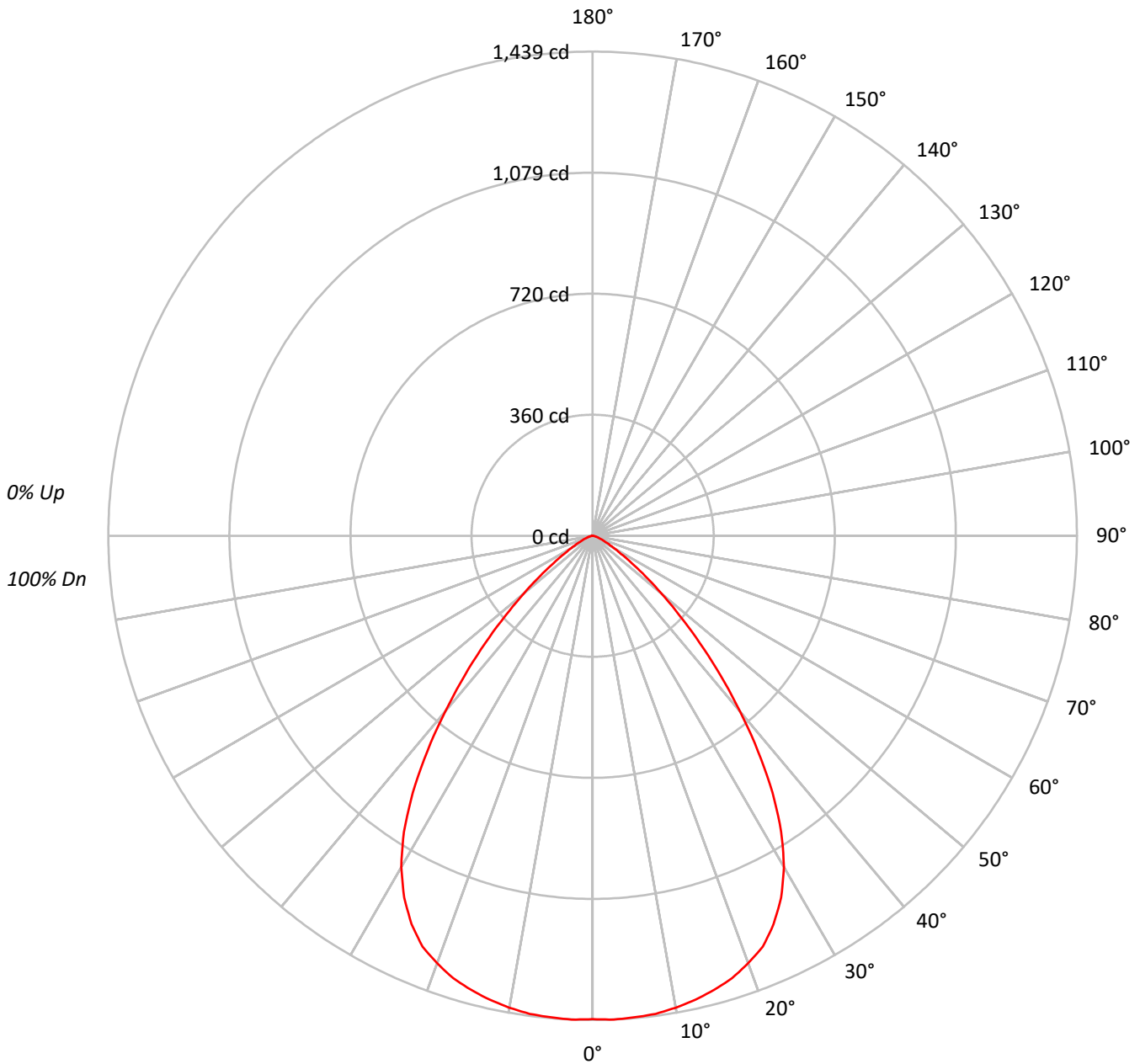
Lumens per Lamp: N/A
Luminaire Lumens: 2228.4 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
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	68	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°	176467
5°	177141
10°	177667
15°	177681
20°	176718
25°	172574
30°	161294
35°	139658
40°	109118
45°	78288
50°	50859
55°	30436
60°	17838
65°	11424
70°	7615
75°	5743
80°	4245
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	6.1
10°-20°	394.1	17.7
20°-30°	581.6	26.1
30°-40°	573.9	25.8
40°-50°	351.2	15.8
50°-60°	134.6	6.0
60°-70°	42.1	1.9
70°-80°	12.3	0.6
80°-90°	1.7	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°	1112.5	49.9
0°-40°	1686.4	75.7
0°-60°	2172.3	97.5
0°-90°	2228.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2228.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1436	
5°	1436	137
15°	1397	394
25°	1273	582
35°	931	574
45°	451	351
55°	142	135
65°	39	42
75°	12	12
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1436.4
2.5°	1439.3
5°	1436.4
7.5°	1433.3
10°	1424.2
12.5°	1412.2
15°	1397.0
17.5°	1378.8
20°	1351.7
22.5°	1321.5
25°	1273.1
27.5°	1212.5
30°	1137.0
32.5°	1043.2
35°	931.2
37.5°	807.3
40°	680.4
42.5°	562.4
45°	450.6
47.5°	350.7
50°	266.1
52.5°	196.6
55°	142.1
57.5°	99.7
60°	72.6
62.5°	54.5
65°	39.3
67.5°	30.2
70°	21.2
72.5°	15.1
75°	12.1
77.5°	6.0
80°	6.0
82.5°	3.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)