

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: P843508

Luminaire Tested: **LD4C25DE010B2750 EU4C25B30 4LBCSMW**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843508
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: LD4C25DE010B2750 EU4C25B30 4LBSCMW
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

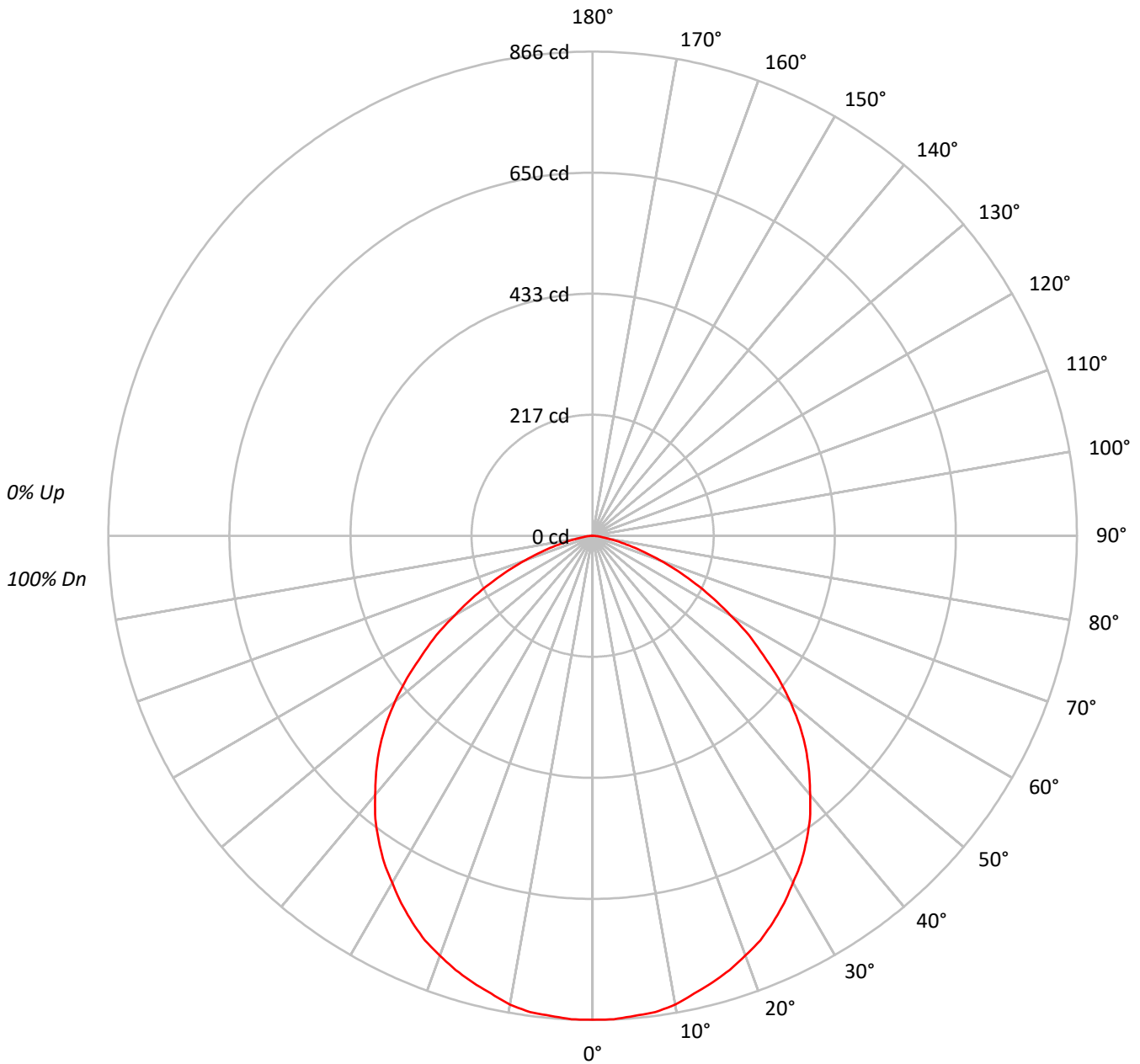
Lumens per Lamp: N/A
Luminaire Lumens: 2119.6 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	106342
5°	106292
10°	106236
15°	105222
20°	104447
25°	103428
30°	101670
35°	99974
40°	97026
45°	93733
50°	88147
55°	79764
60°	70051
65°	58982
70°	46121
75°	32278
80°	18182
85°	12545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.9
10°-20°	233.5	11.0
20°-30°	351.3	16.6
30°-40°	416.3	19.6
40°-50°	414.3	19.5
50°-60°	334.0	15.8
60°-70°	202.0	9.5
70°-80°	75.0	3.5
80°-90°	11.1	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°	666.8	31.5
0°-40°	1083.1	51.1
0°-60°	1831.4	86.4
0°-90°	2119.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2119.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	866	
5°	862	82
15°	827	234
25°	763	351
35°	667	416
45°	540	414
55°	372	334
65°	203	202
75°	68	75
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	865.6
2.5°	865.6
5°	861.9
7.5°	859.3
10°	851.6
12.5°	838.7
15°	827.3
17.5°	814.4
20°	798.9
22.5°	783.5
25°	763.0
27.5°	741.0
30°	716.7
32.5°	693.6
35°	666.6
37.5°	638.4
40°	605.0
42.5°	572.9
45°	539.5
47.5°	502.2
50°	461.2
52.5°	418.7
55°	372.4
57.5°	331.5
60°	285.1
62.5°	244.0
65°	202.9
67.5°	164.4
70°	128.4
72.5°	96.4
75°	68.0
77.5°	43.7
80°	25.7
82.5°	15.4
85°	8.9
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)