

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: P843507

Luminaire Tested: **LD4C25DE010B2750 EU4C25B30 4LBCSMMS**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843507
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 4LBCSMMS
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

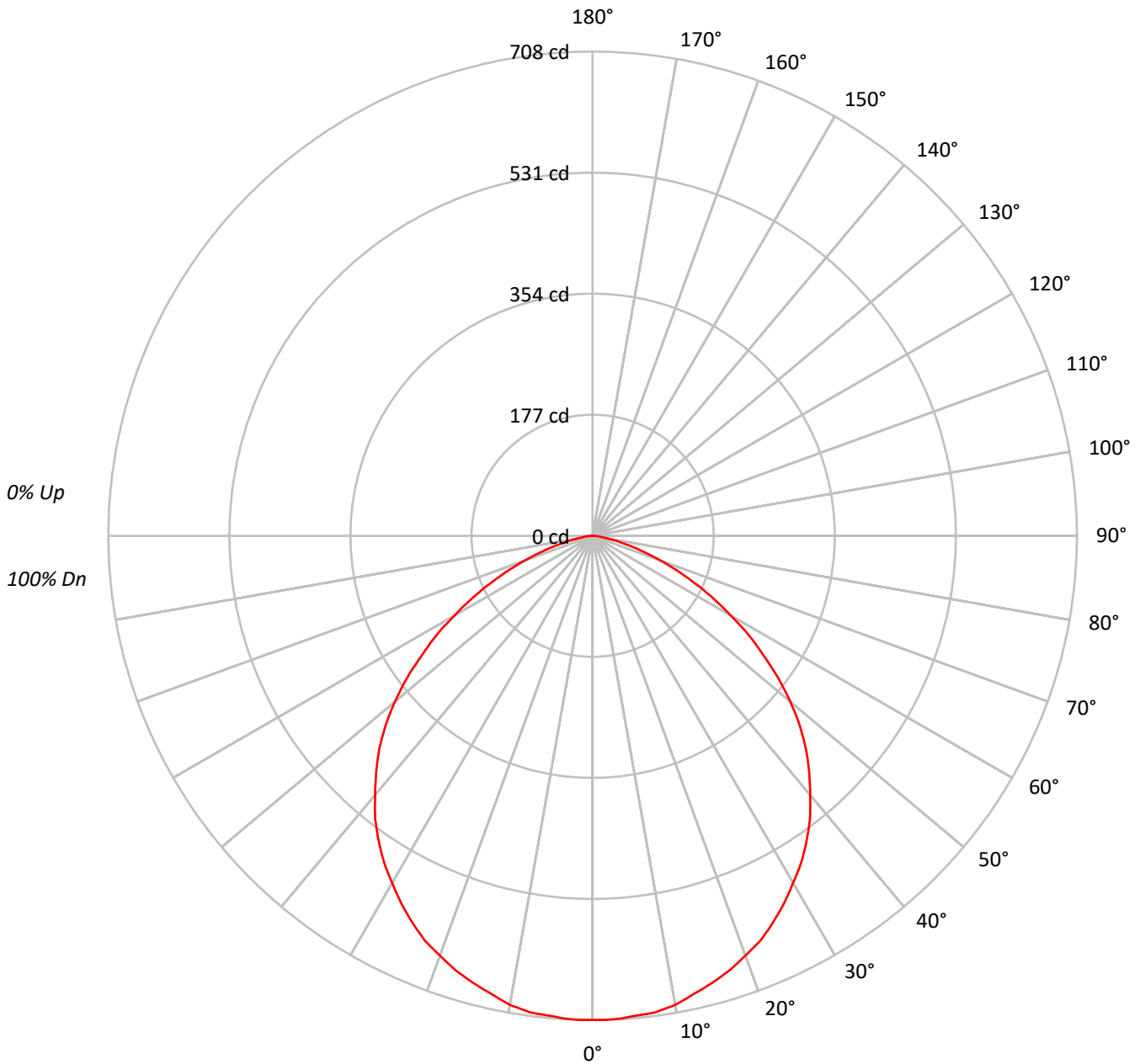
Lumens per Lamp: N/A
Luminaire Lumens: 1733.5 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				
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°	86980
5°	86930
10°	86887
15°	86055
20°	85424
25°	84586
30°	83144
35°	81767
40°	79353
45°	76655
50°	72093
55°	65242
60°	57299
65°	48226
70°	37716
75°	26392
80°	14857
85°	10290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.9
10°-20°	191.0	11.0
20°-30°	287.3	16.6
30°-40°	340.5	19.6
40°-50°	338.8	19.5
50°-60°	273.2	15.8
60°-70°	165.2	9.5
70°-80°	61.3	3.5
80°-90°	9.1	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°	545.4	31.5
0°-40°	885.8	51.1
0°-60°	1497.8	86.4
0°-90°	1733.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	708	
5°	705	67
15°	677	191
25°	624	287
35°	545	340
45°	441	339
55°	305	273
65°	166	165
75°	56	61
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	708.0
2.5°	708.0
5°	704.9
7.5°	702.8
10°	696.5
12.5°	686.0
15°	676.6
17.5°	666.1
20°	653.4
22.5°	640.8
25°	624.0
27.5°	606.0
30°	586.1
32.5°	567.2
35°	545.2
37.5°	522.2
40°	494.8
42.5°	468.5
45°	441.2
47.5°	410.7
50°	377.2
52.5°	342.5
55°	304.6
57.5°	271.1
60°	233.2
62.5°	199.6
65°	165.9
67.5°	134.4
70°	105.0
72.5°	78.8
75°	55.6
77.5°	35.7
80°	21.0
82.5°	12.6
85°	7.3
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)