

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: P843501

Luminaire Tested: **LD4C25DE010B2750 EU4C25B27 4LBNLI**

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-08
Report Number: P843501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25DE010B2750 EU4C25B27 4LBNLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

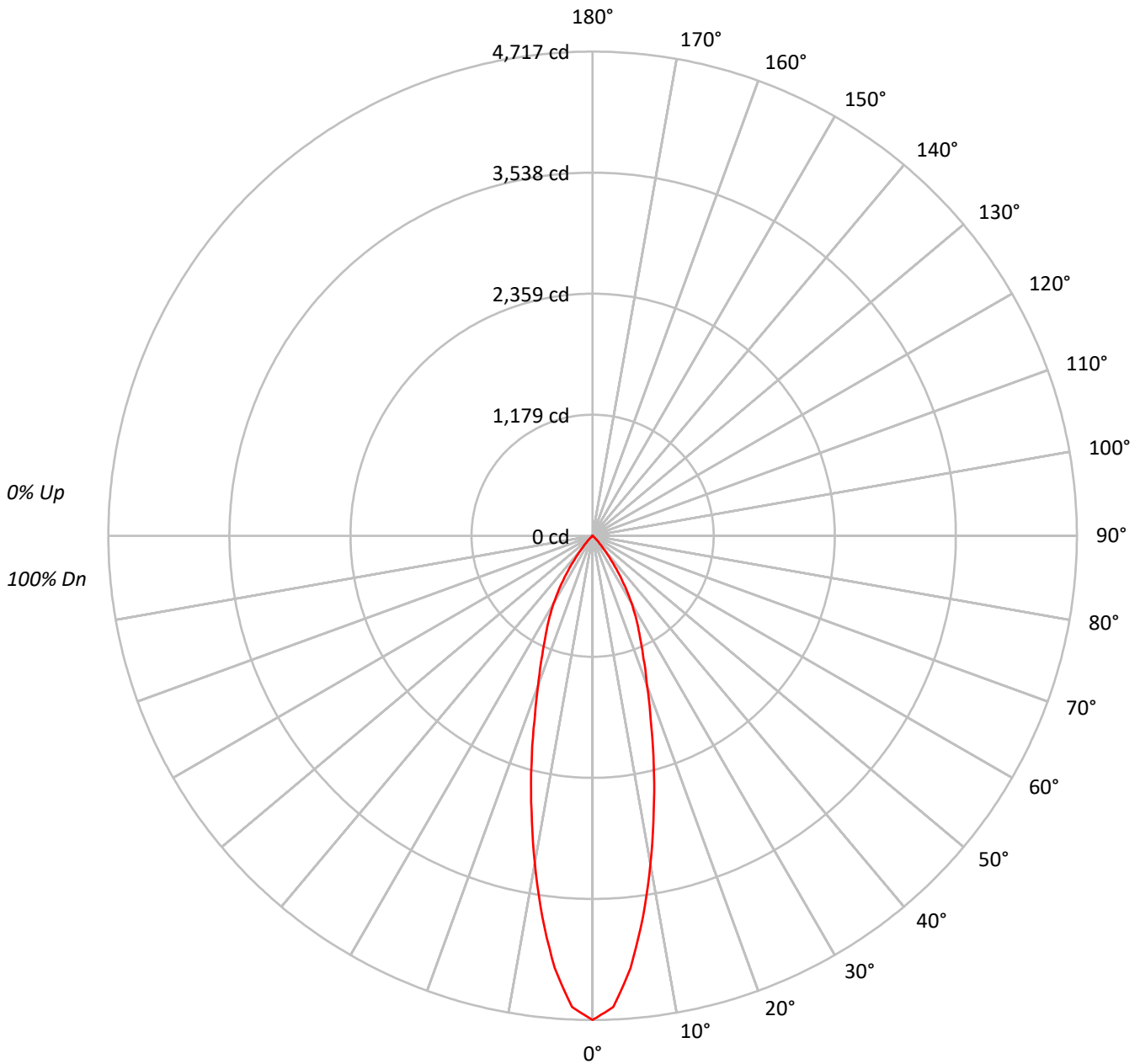
Lumens per Lamp: N/A
Luminaire Lumens: 1832.9 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90			90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81			81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77			77
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73			73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69			69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63			63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61			61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	579463
5°	521458
10°	404248
15°	292594
20°	202592
25°	147699
30°	107316
35°	63515
40°	26718
45°	8322
50°	1070
55°	621
60°	713
65°	843
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.7	20.3
10°-20°	636.4	34.7
20°-30°	505.8	27.6
30°-40°	267.7	14.6
40°-50°	46.1	2.5
50°-60°	3.5	0.2
60°-70°	1.8	0.1
70°-80°	0.0	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°	1513.8	82.6
0°-40°	1781.6	97.2
0°-60°	1831.2	99.9
0°-90°	1832.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1832.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4717	
5°	4228	372
15°	2300	636
25°	1090	506
35°	424	268
45°	48	46
55°	3	3
65°	3	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4716.7
2.5°	4595.3
5°	4228.4
7.5°	3748.6
10°	3240.5
12.5°	2749.3
15°	2300.5
17.5°	1882.7
20°	1549.6
22.5°	1295.6
25°	1089.6
27.5°	923.1
30°	756.5
32.5°	587.1
35°	423.5
37.5°	279.5
40°	166.6
42.5°	96.0
45°	47.9
47.5°	16.9
50°	5.6
52.5°	5.6
55°	2.9
57.5°	2.9
60°	2.9
62.5°	2.9
65°	2.9
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)