

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: P843492

Luminaire Tested: **LD4C25DE010B2750 EU4C25B27 4LBCSMB**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843492
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 EU4C25B27 4LBCSMB
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

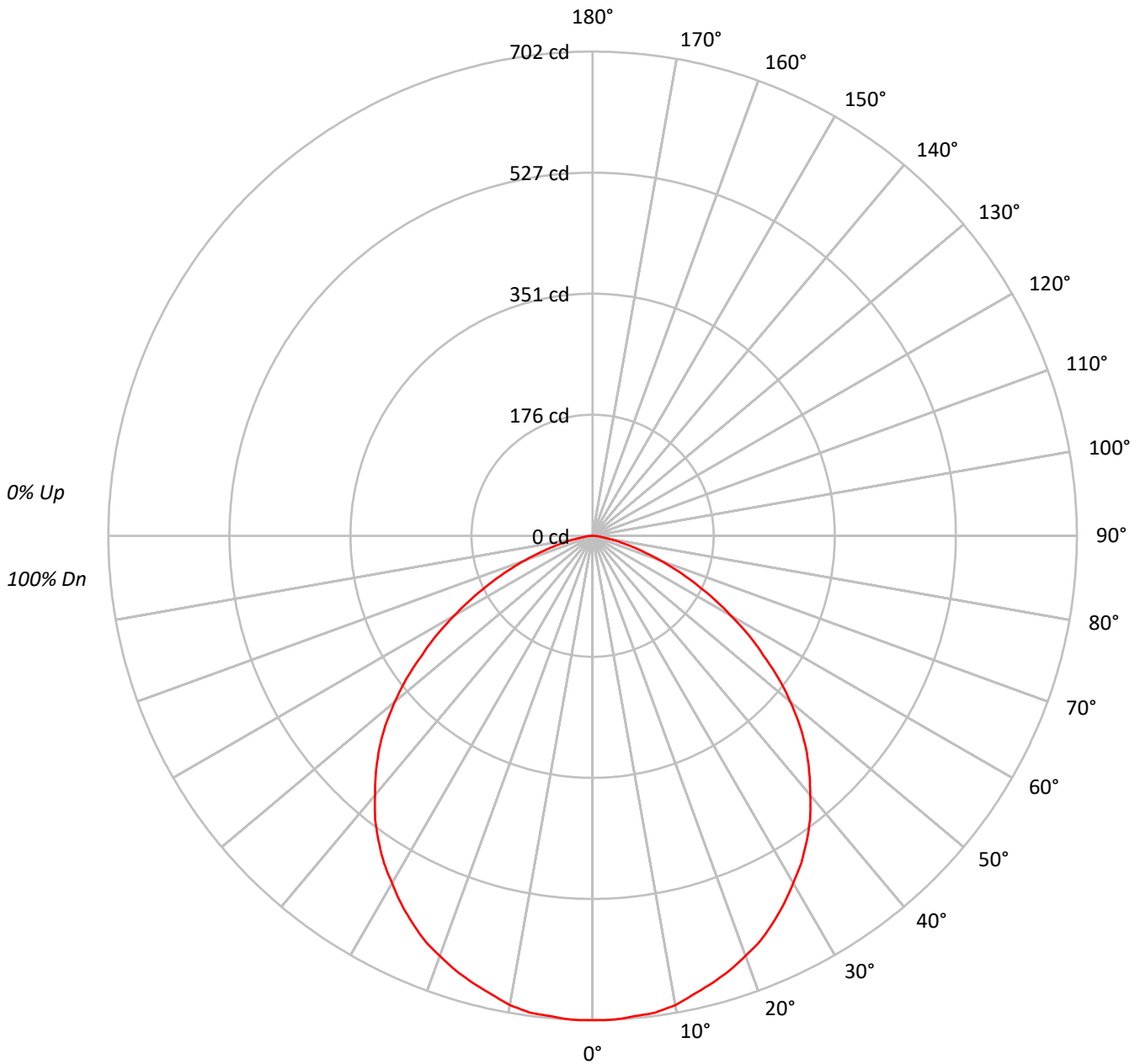
Lumens per Lamp: N/A
Luminaire Lumens: 1719.8 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	86292
5°	86240
10°	86201
15°	85368
20°	84744
25°	83908
30°	82491
35°	81122
40°	78711
45°	76064
50°	71519
55°	64728
60°	56857
65°	47878
70°	37429
75°	26202
80°	14716
85°	10149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.9
10°-20°	189.5	11.0
20°-30°	285.0	16.6
30°-40°	337.8	19.6
40°-50°	336.1	19.5
50°-60°	271.0	15.8
60°-70°	163.9	9.5
70°-80°	60.8	3.5
80°-90°	9.0	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°	541.0	31.5
0°-40°	878.8	51.1
0°-60°	1485.9	86.4
0°-90°	1719.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1719.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	702	
5°	699	67
15°	671	189
25°	619	285
35°	541	338
45°	438	336
55°	302	271
65°	165	164
75°	55	61
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	702.4
2.5°	702.4
5°	699.3
7.5°	697.2
10°	691.0
12.5°	680.5
15°	671.2
17.5°	660.8
20°	648.2
22.5°	635.7
25°	619.0
27.5°	601.3
30°	581.5
32.5°	562.8
35°	540.9
37.5°	517.9
40°	490.8
42.5°	464.8
45°	437.8
47.5°	407.4
50°	374.2
52.5°	339.7
55°	302.2
57.5°	269.0
60°	231.4
62.5°	198.0
65°	164.7
67.5°	133.4
70°	104.2
72.5°	78.2
75°	55.2
77.5°	35.4
80°	20.8
82.5°	12.5
85°	7.2
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)