

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: P843542

Luminaire Tested: **LD4C25DE010B40 EU4C25B40 4LBNH**

Issue Date: 2/17/2023



Test Information

Test Method: LM-79-08
Report Number: P843542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25DE010B40 EU4C25B40 4LBNH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

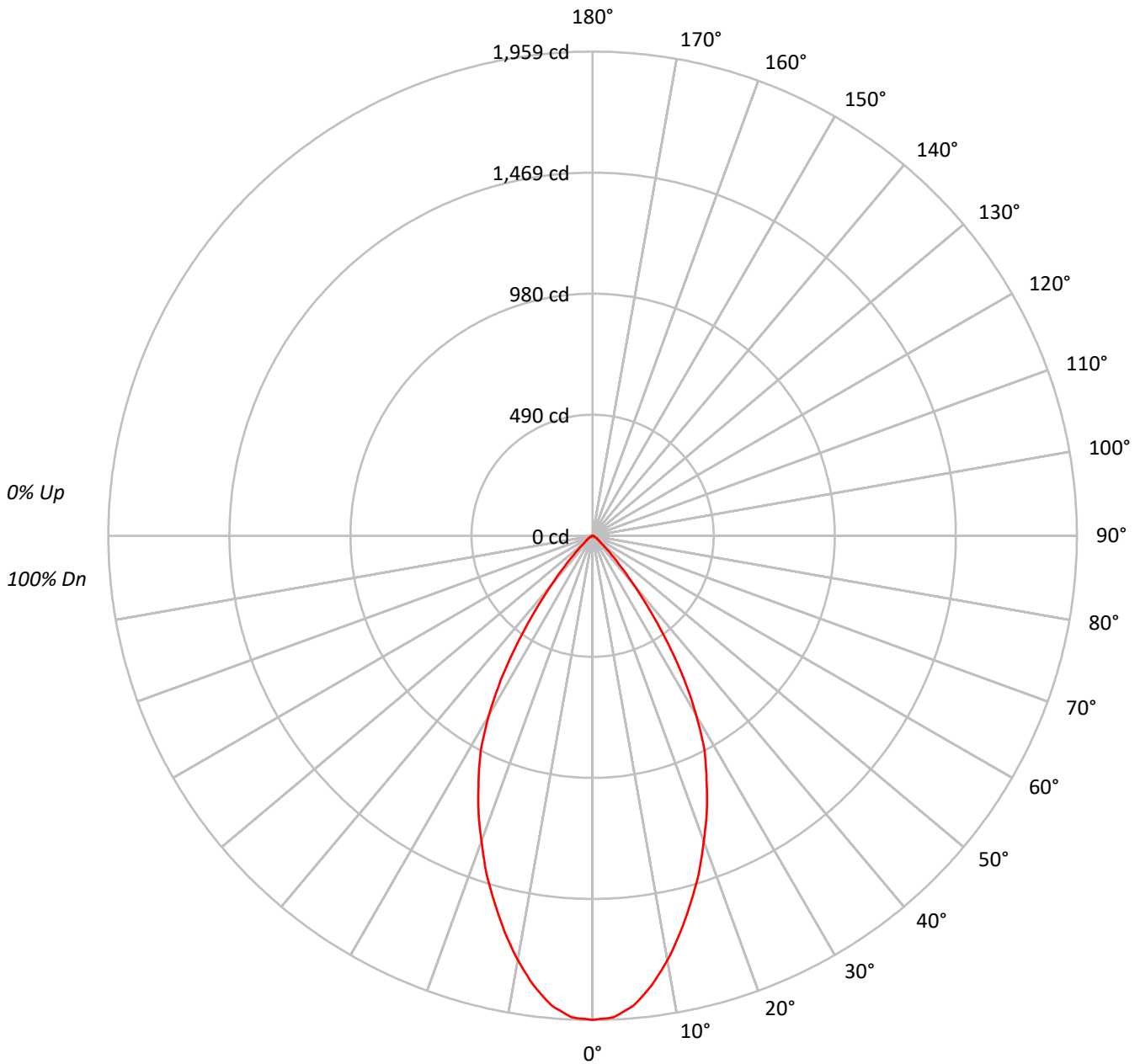
Lumens per Lamp: N/A
Luminaire Lumens: 1560.1 lumens
Efficiency: N/A
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	76	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	240621
5°	235275
10°	217537
15°	195194
20°	171829
25°	147862
30°	119076
35°	79278
40°	41232
45°	18677
50°	8104
55°	5440
60°	3489
65°	2471
70°	2047
75°	1377
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	11.3
10°-20°	428.7	27.5
20°-30°	497.7	31.9
30°-40°	329.6	21.1
40°-50°	92.4	5.9
50°-60°	23.3	1.5
60°-70°	8.7	0.6
70°-80°	3.0	0.2
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°	1103.0	70.7
0°-40°	1432.6	91.8
0°-60°	1548.3	99.2
0°-90°	1560.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1560.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1959	
5°	1908	177
15°	1535	429
25°	1091	498
35°	529	330
45°	108	92
55°	25	23
65°	8	9
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1958.6
2.5°	1950.2
5°	1907.8
7.5°	1834.3
10°	1743.8
12.5°	1642.0
15°	1534.7
17.5°	1430.1
20°	1314.3
22.5°	1206.9
25°	1090.8
27.5°	980.7
30°	839.4
32.5°	689.6
35°	528.6
37.5°	378.7
40°	257.1
42.5°	166.7
45°	107.5
47.5°	65.0
50°	42.4
52.5°	31.1
55°	25.4
57.5°	19.9
60°	14.2
62.5°	11.3
65°	8.5
67.5°	5.7
70°	5.7
72.5°	2.9
75°	2.9
77.5°	2.9
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)