

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: P843456

Luminaire Tested: **LD4C20DE010B35 EU4C20B35 4LBMH**

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-08
Report Number: P843456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C20DE010B35 EU4C20B35 4LBMH
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

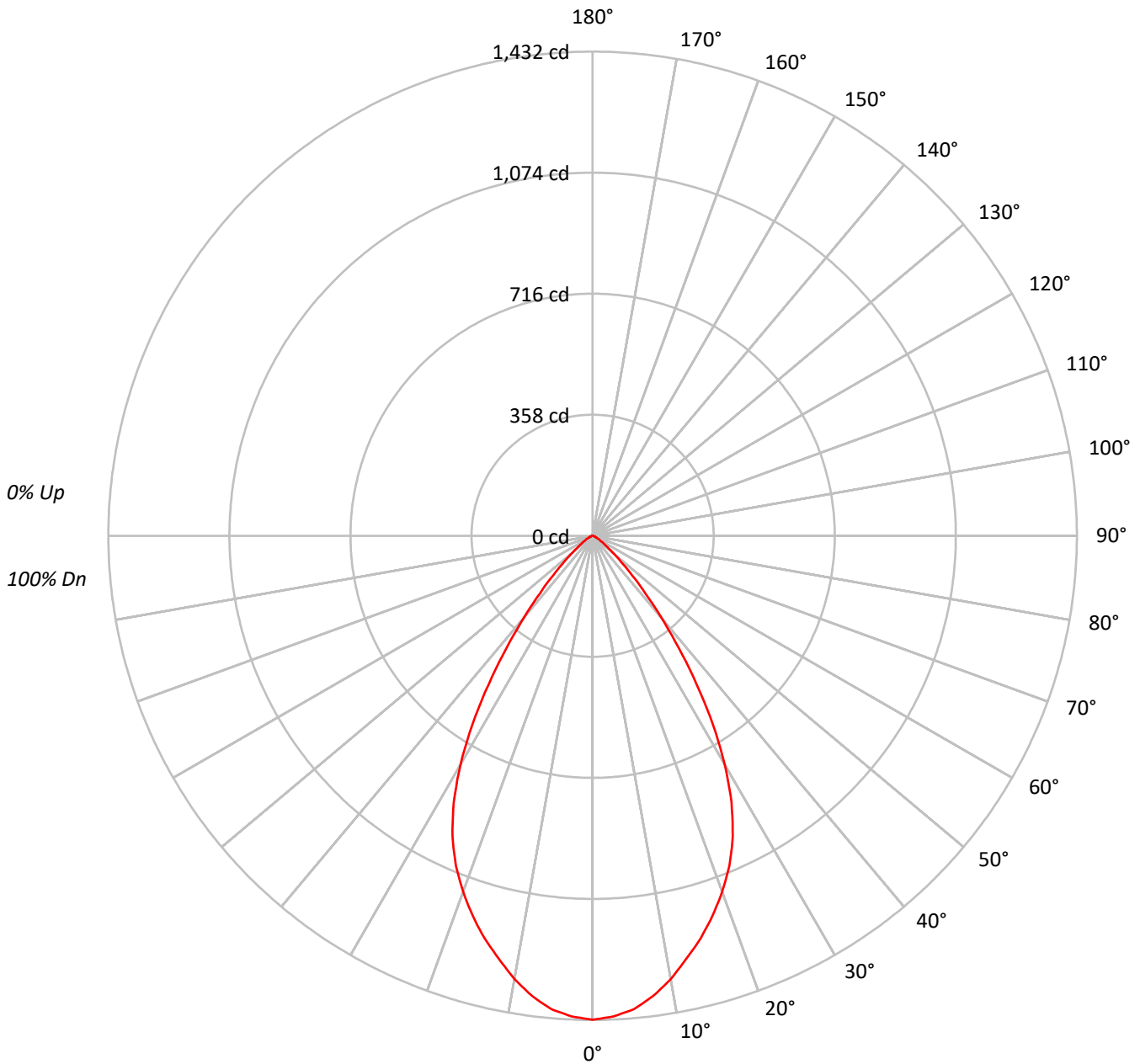
Lumens per Lamp: N/A
Luminaire Lumens: 1443.7 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67	67	67	67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62	62	62	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58	58	58	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54	54	54	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	175865
5°	173318
10°	166065
15°	156847
20°	146413
25°	132911
30°	110962
35°	80387
40°	50325
45°	28754
50°	15003
55°	8396
60°	5356
65°	3169
70°	2371
75°	1044
80°	1556
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	9.1
10°-20°	345.6	23.9
20°-30°	444.1	30.8
30°-40°	334.1	23.1
40°-50°	134.2	9.3
50°-60°	38.1	2.6
60°-70°	12.1	0.8
70°-80°	3.4	0.2
80°-90°	0.3	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°	921.4	63.8
0°-40°	1255.5	87.0
0°-60°	1427.8	98.9
0°-90°	1443.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1432	
5°	1405	132
15°	1233	346
25°	980	444
35°	536	334
45°	166	134
55°	39	38
65°	11	12
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1431.5
2.5°	1422.7
5°	1405.4
7.5°	1372.6
10°	1331.2
12.5°	1281.2
15°	1233.2
17.5°	1178.7
20°	1119.9
22.5°	1056.8
25°	980.5
27.5°	888.9
30°	782.2
32.5°	662.3
35°	536.0
37.5°	418.3
40°	313.8
42.5°	231.0
45°	165.5
47.5°	113.4
50°	78.5
52.5°	54.5
55°	39.2
57.5°	28.3
60°	21.8
62.5°	15.2
65°	10.9
67.5°	8.7
70°	6.6
72.5°	4.3
75°	2.2
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)