

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: METALUX

Report Number: P685724

Luminaire Tested: **8CZL-10-UNV-N-LVR-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685724
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-N-LVR-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH NARROW LENS @80 CRI and 3500K
Light Source: (784) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

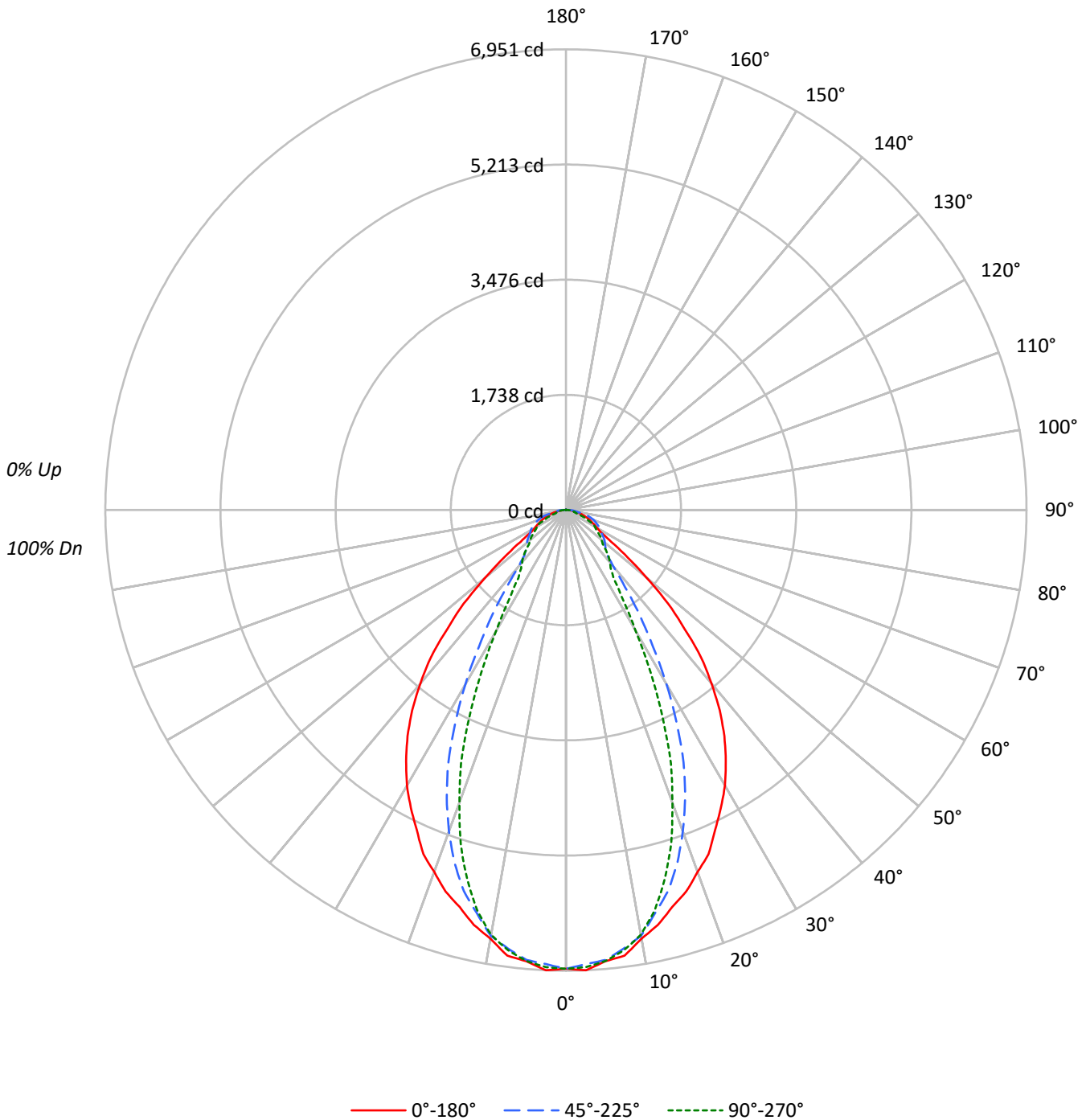
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8194.3 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 0.8 / 0.85
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P685724
CATALOG NUMBER: 8CZL-10-UNV-N-LVR-L835-CD-U

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	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	97	92	87	101	95	90	86	92	88	84	88	85	82	86	83	80	86	83	80	78
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	79	75	72	70
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	73	69	65	63
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	68	63	59	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	75	64	57	51	73	63	56	51	62	55	51	60	55	51	59	54	50	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	55	50	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	52	47	43	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11175	11175	11175
5°	11076	11044	11073
10°	10763	10697	10671
15°	10364	9951	9635
20°	9982	8864	8069
25°	9486	7485	6153
30°	8948	5662	3931
35°	8213	3838	2470
40°	7203	2338	2167
45°	5771	1948	1941
50°	3990	1925	1753
55°	2350	1908	1651
60°	1752	1982	1630
65°	1658	1996	1434
70°	1595	2129	1082
75°	1503	2136	926
80°	1396	1772	1047
85°	1237	2151	1293



TEST NUMBER: P685724
 CATALOG NUMBER: 8CZL-10-UNV-N-LVR-L835-CD-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.9	7.8
10°-20°	1664.7	20.3
20°-30°	1944.7	23.7
30°-40°	1442.8	17.6
40°-50°	956.5	11.7
50°-60°	634.3	7.7
60°-70°	473.3	5.8
70°-80°	279.3	3.4
80°-90°	117.6	1.4
90°-100°	25.4	0.3
100°-110°	3.4	0.0
110°-120°	1.8	0.0
120°-130°	1.6	0.0
130°-140°	1.5	0.0
140°-150°	1.6	0.0
150°-160°	1.4	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	4252.3	51.9
0°-40°	5695.1	69.5
0°-60°	7285.9	88.9
0°-90°	8156.2	99.5
90°-120°	30.6	0.4
90°-150°	35.3	0.4
90°-180°	38.0	0.5
0°-180°	8194.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6921	6921	6921	6921	6921	
5°	6834	6828	6814	6839	6832	646
15°	6200	6126	5953	5850	5764	1749
25°	5325	4942	4201	3604	3454	2453
35°	4167	3087	1947	1316	1253	2586
45°	2527	1491	853	885	850	1945
55°	835	734	678	654	586	822
65°	434	485	522	511	375	433
75°	241	270	342	249	148	254
85°	67	82	116	154	70	72
90°	1	25	58	100	20	4
95°	1	4	23	50	11	0
105°	1	1	2	4	4	1
115°	1	1	2	2	2	1
125°	1	1	2	2	2	1
135°	1	2	2	2	2	1
145°	2	2	2	3	3	1
155°	2	3	3	4	4	1
165°	3	4	4	4	4	1
175°	3	4	4	5	5	0
180°	4	4	4	4	4	

TEST NUMBER: P685724

CATALOG NUMBER: 8CZL-10-UNV-N-LVR-L835-CD-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6921.0	6921.0	6921.0	6921.0	6921.0
2.5°	6950.9	6913.4	6859.4	6908.1	6904.0
5°	6833.6	6827.8	6814.3	6838.9	6831.9
7.5°	6780.9	6749.2	6674.1	6732.2	6699.3
10°	6565.1	6528.1	6524.6	6512.9	6508.8
12.5°	6412.0	6367.5	6225.0	6217.3	6185.7
15°	6200.3	6126.5	5952.9	5850.3	5764.1
17.5°	6036.2	5875.5	5585.8	5394.7	5283.8
20°	5809.8	5632.7	5158.9	4825.3	4696.3
22.5°	5623.3	5309.6	4700.4	4228.4	4139.8
25°	5324.9	4942.0	4201.4	3603.9	3453.8
27.5°	5065.7	4537.4	3612.7	2957.1	2773.0
30°	4799.5	4084.1	3036.8	2322.6	2108.6
32.5°	4489.3	3627.3	2444.0	1742.7	1587.9
35°	4166.8	3087.3	1947.4	1316.4	1253.1
37.5°	3811.4	2601.8	1463.6	1099.5	1110.0
40°	3417.4	2178.4	1109.4	1008.0	1027.9
42.5°	3024.5	1821.9	923.0	948.2	954.0
45°	2527.3	1491.2	853.2	885.4	850.2
47.5°	2092.8	1218.5	803.9	800.4	750.6
50°	1588.5	993.3	766.4	724.2	697.8
52.5°	1176.3	837.9	730.6	684.3	657.3
55°	835.0	733.6	677.9	654.4	586.4
57.5°	627.4	659.7	637.4	584.6	537.1
60°	542.4	594.6	613.9	551.2	504.9
62.5°	489.6	538.9	575.8	531.3	462.1
65°	433.9	484.9	522.5	510.7	375.3
67.5°	385.2	442.1	488.5	438.0	306.7
70°	337.8	390.5	450.9	371.8	229.3
72.5°	286.7	326.6	399.3	289.1	167.1
75°	241.0	269.7	342.4	248.6	148.4
77.5°	192.9	217.0	234.6	226.3	130.8
80°	150.1	174.2	190.6	205.8	112.6
82.5°	109.1	124.9	151.3	182.4	93.8
85°	66.8	81.5	116.1	154.2	69.8
87.5°	28.7	49.8	85.0	127.8	45.7
90°	1.2	24.6	58.1	99.7	20.5
92.5°	0.6	10.6	37.5	73.3	13.5
95°	0.6	4.1	22.9	49.8	10.6
97.5°	0.6	1.8	11.7	32.3	7.6
100°	0.6	1.2	6.5	18.8	5.3
102.5°	0.6	1.2	2.9	9.4	4.1
105°	0.6	1.2	2.3	4.1	3.5
107.5°	0.6	1.2	1.8	2.9	2.9
110°	0.6	1.2	1.8	2.9	2.9



TEST NUMBER: P685724
 CATALOG NUMBER: 8CZL-10-UNV-N-LVR-L835-CD-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	1.2	1.8	2.9	2.9
115°	0.6	1.2	1.8	2.3	2.3
117.5°	0.6	1.2	1.8	2.3	2.3
120°	0.6	1.2	1.8	2.3	2.3
122.5°	0.6	1.2	1.8	2.3	2.3
125°	1.2	1.2	1.8	2.3	2.3
127.5°	1.2	1.8	1.8	2.3	2.3
130°	1.2	1.8	1.8	2.3	2.3
132.5°	1.2	1.8	1.8	2.3	2.3
135°	1.2	1.8	1.8	2.3	2.3
137.5°	1.2	1.8	2.3	2.3	2.3
140°	1.8	2.3	2.3	2.3	2.3
142.5°	1.8	2.3	2.3	2.9	2.3
145°	1.8	2.3	2.3	2.9	2.9
147.5°	1.8	2.3	2.9	2.9	2.9
150°	1.8	2.3	2.9	3.5	3.5
152.5°	2.3	2.3	2.9	3.5	3.5
155°	2.3	2.9	2.9	3.5	3.5
157.5°	2.3	2.9	2.9	3.5	4.1
160°	2.3	2.9	3.5	4.1	4.1
162.5°	2.3	2.9	3.5	4.1	4.1
165°	2.9	3.5	3.5	4.1	4.1
167.5°	2.9	3.5	4.1	4.1	4.7
170°	2.9	3.5	4.1	4.7	4.7
172.5°	2.9	3.5	4.1	4.7	4.7
175°	2.9	3.5	4.1	4.7	5.3
177.5°	2.9	3.5	4.1	4.7	5.3
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)