

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: P685784

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

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685784
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-M-LVR-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH MEDIUM LENS @80 CRI and 3500K
Light Source: (784) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

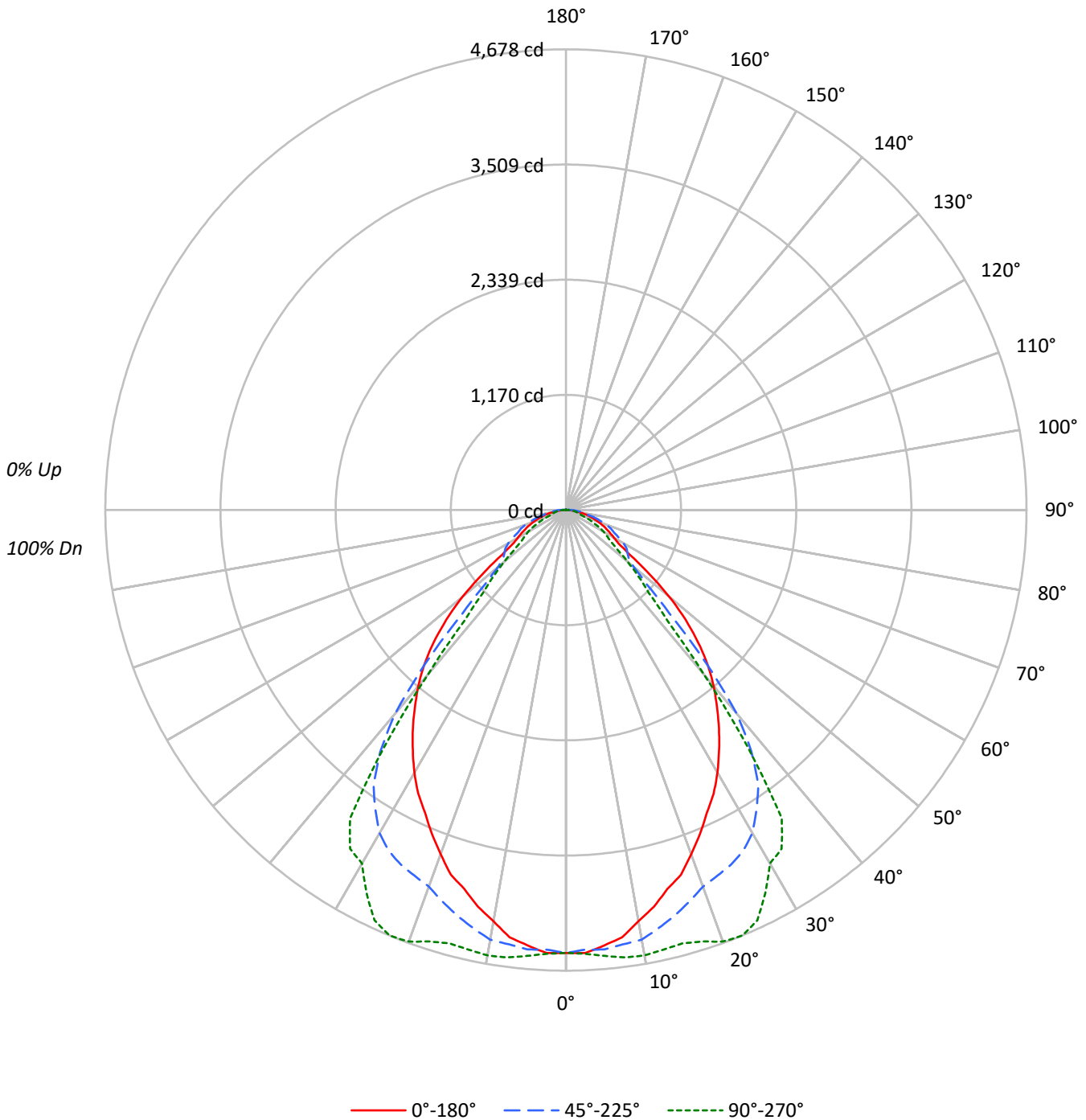
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8319.2 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.34 / 1.2
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

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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	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	84	81	79	77
3	95	87	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	70	66	62	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	65	60	56	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	60	55	51	49
7	72	60	53	47	70	59	52	47	58	51	47	57	51	46	55	50	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	42	39	48	42	39	37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7261	7261	7261
5°	7194	7258	7367
10°	6950	7263	7528
15°	6658	7127	7616
20°	6389	6992	8012
25°	6036	7075	8190
30°	5738	7059	7725
35°	5342	6713	7533
40°	4918	5690	4590
45°	4333	3392	2721
50°	3439	2252	2053
55°	2227	2143	1558
60°	1818	2178	1431
65°	1732	2052	1169
70°	1644	2060	925
75°	1562	1928	860
80°	1445	1821	965
85°	1293	2227	1184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.8	5.1
10°-20°	1210.5	14.6
20°-30°	1825.4	21.9
30°-40°	2017.0	24.2
40°-50°	1264.6	15.2
50°-60°	680.9	8.2
60°-70°	462.4	5.6
70°-80°	276.2	3.3
80°-90°	120.0	1.4
90°-100°	26.3	0.3
100°-110°	3.0	0.0
110°-120°	1.1	0.0
120°-130°	1.0	0.0
130°-140°	1.2	0.0
140°-150°	1.1	0.0
150°-160°	0.9	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3462.6	41.6
0°-40°	5479.6	65.9
0°-60°	7425.1	89.3
0°-90°	8283.7	99.6
90°-120°	30.5	0.4
90°-150°	33.8	0.4
90°-180°	36.0	0.4
0°-180°	8319.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4497	4497	4497	4497	4497	
5°	4439	4446	4478	4531	4545	418
15°	3983	4122	4264	4470	4556	1124
25°	3388	3594	3971	4395	4598	1564
35°	2710	3029	3406	3664	3822	1691
45°	1898	2066	1485	1211	1192	1447
55°	791	827	761	658	554	768
65°	453	498	537	436	306	448
75°	250	278	309	254	138	264
85°	70	86	120	158	64	75
90°	2	26	61	101	19	5
95°	1	4	24	52	9	0
105°	1	1	2	4	2	1
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	1	1	2	2	2	1
145°	1	2	2	2	2	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	2	2	2	3	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4497.2	4497.2	4497.2	4497.2	4497.2
2.5°	4503.1	4490.8	4467.9	4508.9	4509.5
5°	4438.6	4446.2	4478.4	4531.2	4545.3
7.5°	4375.8	4405.1	4448.5	4575.8	4582.2
10°	4239.2	4300.2	4429.8	4552.3	4591.6
12.5°	4125.4	4215.7	4349.4	4510.7	4571.7
15°	3982.9	4122.5	4263.8	4470.2	4556.4
17.5°	3883.2	3995.2	4168.2	4451.5	4592.8
20°	3718.4	3876.2	4069.1	4464.4	4663.2
22.5°	3558.4	3750.1	4019.3	4469.1	4677.8
25°	3388.3	3594.1	3971.2	4394.6	4597.5
27.5°	3247.6	3420.0	3899.6	4239.2	4385.8
30°	3077.5	3280.4	3786.5	4001.7	4143.6
32.5°	2894.5	3152.0	3602.9	3819.9	4077.9
35°	2710.4	3028.8	3405.9	3663.9	3821.7
37.5°	2518.1	2927.4	3096.3	3137.9	3030.0
40°	2333.3	2786.0	2699.8	2297.0	2177.9
42.5°	2131.6	2482.3	2105.8	1580.4	1527.0
45°	1897.6	2065.9	1485.4	1210.9	1191.6
47.5°	1648.4	1599.7	1107.7	1012.1	1001.0
50°	1369.3	1279.0	896.6	893.1	817.5
52.5°	1067.3	1015.7	804.0	774.7	654.4
55°	791.1	827.4	761.2	658.5	553.6
57.5°	633.3	717.8	731.3	575.3	494.9
60°	563.0	628.0	674.4	528.9	443.3
62.5°	504.9	556.5	604.0	490.8	382.3
65°	453.3	498.5	537.2	436.3	306.1
67.5°	398.8	445.7	493.2	374.7	260.4
70°	348.3	398.2	436.3	332.5	195.9
72.5°	296.1	347.7	364.7	278.0	156.6
75°	250.4	278.5	309.0	253.9	137.8
77.5°	202.3	226.4	238.7	232.8	121.4
80°	155.4	174.8	195.9	211.7	103.8
82.5°	113.8	127.8	156.6	186.5	83.3
85°	69.8	85.6	120.2	158.3	63.9
87.5°	31.1	51.0	88.5	130.8	41.0
90°	1.8	26.4	61.0	101.4	18.8
92.5°	0.6	11.7	39.9	75.1	12.9
95°	0.6	4.1	24.0	52.2	9.4
97.5°	0.6	1.8	13.5	33.4	5.9
100°	0.6	1.2	6.5	19.4	4.1
102.5°	0.6	1.2	2.9	9.4	2.9
105°	0.6	1.2	1.8	4.1	1.8
107.5°	0.6	1.2	1.2	1.8	1.2
110°	0.6	1.2	1.2	1.2	1.2



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)