

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: P685788

Luminaire Tested: **8CZL-32-UNV-M-LVR-L835-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685788
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-M-LVR-L835-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH MEDIUM LENS @80 CRI and 3500K
Light Source: (1176) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

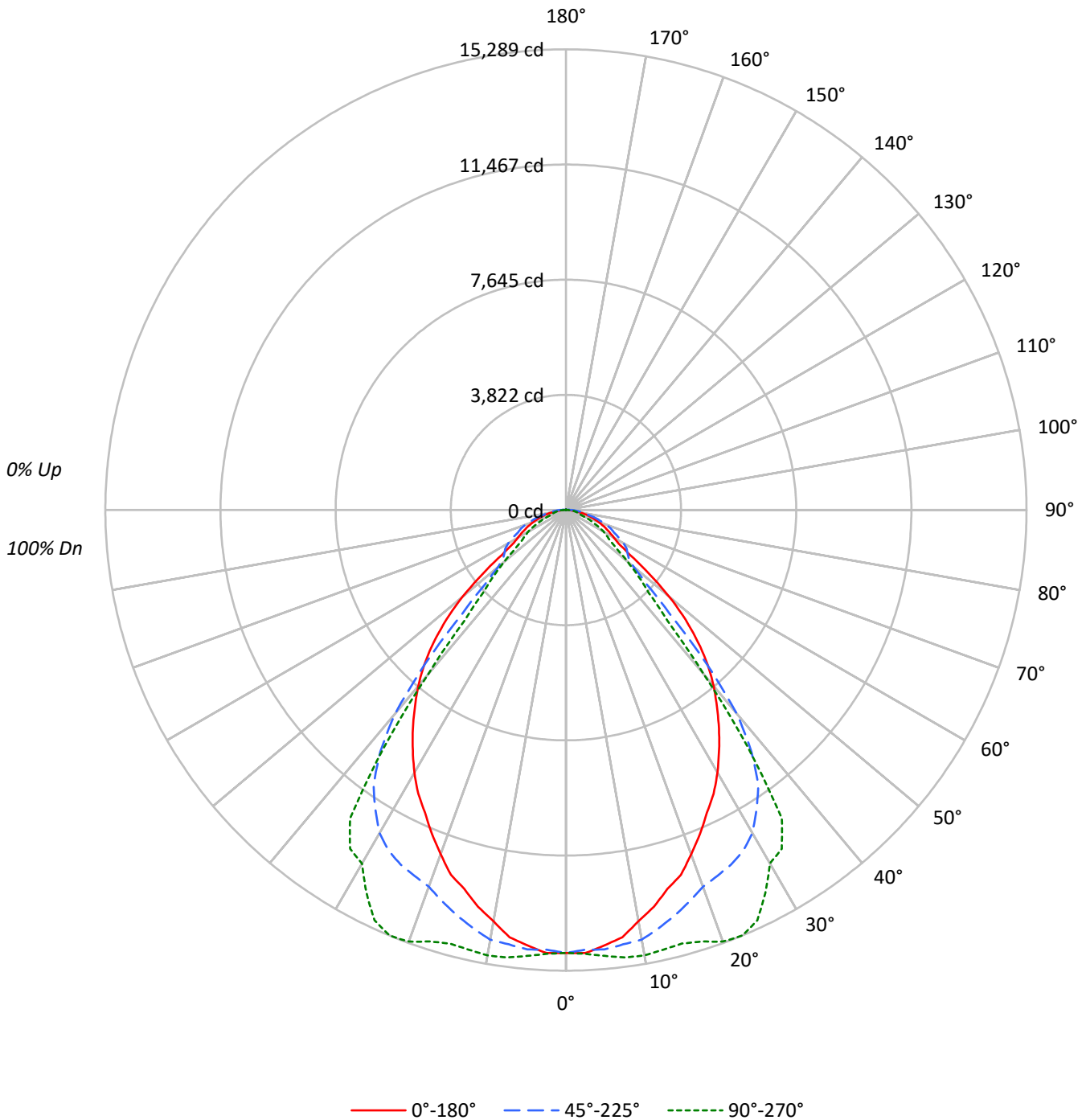
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27190.3 lumens
Efficiency: N/A
Efficacy: 132.0 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): 206
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°	23733	23733	23733
5°	23513	23724	24078
10°	22716	23737	24605
15°	21760	23295	24893
20°	20882	22852	26188
25°	19729	23123	26770
30°	18753	23073	25249
35°	17461	21942	24620
40°	16074	18599	15003
45°	14162	11086	8893
50°	11242	7361	6711
55°	7278	7003	5093
60°	5942	7117	4679
65°	5660	6708	3822
70°	5375	6732	3022
75°	5105	6301	2810
80°	4722	5953	3154
85°	4226	7279	3870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1394.8	5.1
10°-20°	3956.4	14.6
20°-30°	5966.1	21.9
30°-40°	6592.3	24.2
40°-50°	4133.4	15.2
50°-60°	2225.4	8.2
60°-70°	1511.4	5.6
70°-80°	902.7	3.3
80°-90°	392.2	1.4
90°-100°	85.9	0.3
100°-110°	9.8	0.0
110°-120°	3.5	0.0
120°-130°	3.2	0.0
130°-140°	3.8	0.0
140°-150°	3.5	0.0
150°-160°	2.8	0.0
160°-170°	2.2	0.0
170°-180°	0.8	0.0
0°-30°	11317.4	41.6
0°-40°	17909.7	65.9
0°-60°	24268.4	89.3
0°-90°	27074.7	99.6
90°-120°	99.3	0.4
90°-150°	109.9	0.4
90°-180°	116.0	0.4
0°-180°	27190.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14699	14699	14699	14699	14699	
5°	14507	14532	14638	14810	14856	1367
15°	13018	13474	13936	14611	14892	3675
25°	11074	11747	12980	14363	15027	5113
35°	8859	9900	11132	11975	12491	5528
45°	6202	6752	4855	3958	3895	4731
55°	2586	2704	2488	2152	1809	2511
65°	1482	1629	1756	1426	1000	1466
75°	818	910	1010	830	450	863
85°	228	280	393	518	209	246
90°	6	86	199	332	61	16
95°	2	13	79	171	31	2
105°	2	4	6	13	6	2
115°	2	4	4	4	4	2
125°	2	4	4	4	4	2
135°	4	4	6	6	6	3
145°	4	6	6	6	8	2
155°	6	6	6	6	6	3
165°	6	8	8	8	8	2
175°	8	8	8	10	10	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14698.8	14698.8	14698.8	14698.8	14698.8
2.5°	14718.0	14677.7	14603.0	14737.1	14739.1
5°	14507.1	14532.1	14637.5	14810.0	14856.0
7.5°	14302.1	14397.9	14539.7	14955.6	14976.7
10°	13855.5	14054.8	14478.4	14879.0	15007.4
12.5°	13483.6	13778.8	14215.8	14742.9	14942.2
15°	13017.9	13474.1	13936.0	14610.6	14892.4
17.5°	12692.1	13058.1	13623.6	14549.3	15011.2
20°	12153.5	12669.1	13299.6	14591.5	15241.2
22.5°	11630.2	12257.0	13136.7	14606.8	15289.1
25°	11074.4	11747.2	12979.6	14363.4	15026.6
27.5°	10614.4	11177.9	12745.7	13855.5	14334.6
30°	10058.6	10721.8	12375.8	13079.2	13543.1
32.5°	9460.6	10302.0	11775.9	12485.1	13328.4
35°	8858.8	9899.5	11131.9	11975.2	12490.8
37.5°	8230.1	9567.9	10119.9	10256.0	9903.3
40°	7626.4	9106.0	8824.3	7507.5	7118.4
42.5°	6967.0	8113.2	6882.7	5165.4	4991.0
45°	6202.3	6752.4	4854.9	3957.9	3894.6
47.5°	5387.7	5228.6	3620.6	3308.1	3271.7
50°	4475.4	4180.2	2930.6	2919.1	2671.8
52.5°	3488.3	3319.6	2627.7	2531.9	2139.0
55°	2585.6	2704.4	2487.8	2152.4	1809.3
57.5°	2070.0	2346.0	2390.1	1880.2	1617.7
60°	1840.0	2052.7	2204.1	1728.8	1449.0
62.5°	1650.2	1818.9	1974.2	1604.2	1249.7
65°	1481.6	1629.2	1755.7	1426.0	1000.5
67.5°	1303.3	1456.7	1611.9	1224.7	851.0
70°	1138.5	1301.4	1426.0	1086.7	640.2
72.5°	967.9	1136.6	1192.2	908.5	511.7
75°	818.4	910.4	1010.1	829.9	450.4
77.5°	661.2	739.8	780.1	760.9	396.7
80°	507.9	571.2	640.2	691.9	339.2
82.5°	371.8	417.8	511.7	609.5	272.2
85°	228.1	279.8	392.9	517.5	208.9
87.5°	101.6	166.7	289.4	427.4	134.2
90°	5.7	86.2	199.3	331.6	61.3
92.5°	1.9	38.3	130.3	245.3	42.2
95°	1.9	13.4	78.6	170.6	30.7
97.5°	1.9	5.7	44.1	109.2	19.2
100°	1.9	3.8	21.1	63.2	13.4
102.5°	1.9	3.8	9.6	30.7	9.6
105°	1.9	3.8	5.7	13.4	5.7
107.5°	1.9	3.8	3.8	5.7	3.8
110°	1.9	3.8	3.8	3.8	3.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	3.8	3.8	3.8	3.8
115°	1.9	3.8	3.8	3.8	3.8
117.5°	1.9	3.8	3.8	3.8	3.8
120°	1.9	3.8	3.8	3.8	3.8
122.5°	1.9	3.8	3.8	3.8	3.8
125°	1.9	3.8	3.8	3.8	3.8
127.5°	1.9	3.8	3.8	3.8	3.8
130°	1.9	3.8	3.8	3.8	3.8
132.5°	3.8	3.8	5.7	5.7	5.7
135°	3.8	3.8	5.7	5.7	5.7
137.5°	3.8	5.7	5.7	5.7	5.7
140°	3.8	5.7	5.7	5.7	5.7
142.5°	3.8	5.7	5.7	5.7	5.7
145°	3.8	5.7	5.7	5.7	7.7
147.5°	3.8	5.7	5.7	5.7	7.7
150°	3.8	5.7	5.7	5.7	5.7
152.5°	5.7	5.7	5.7	5.7	5.7
155°	5.7	5.7	5.7	5.7	5.7
157.5°	5.7	5.7	5.7	7.7	7.7
160°	5.7	7.7	7.7	7.7	7.7
162.5°	5.7	7.7	7.7	7.7	7.7
165°	5.7	7.7	7.7	7.7	7.7
167.5°	5.7	7.7	7.7	7.7	9.6
170°	7.7	7.7	7.7	9.6	9.6
172.5°	7.7	7.7	7.7	9.6	9.6
175°	7.7	7.7	7.7	9.6	9.6
177.5°	7.7	9.6	7.7	9.6	11.5
180°	9.6	9.6	9.6	9.6	9.6

(END OF REPORT)