

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: P685778

Luminaire Tested: **8CZL-32-UNV-N-LVR-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685778
Test Lab: INNOVATION CENTER(G3)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-32-UNV-N-LVR-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT LOUVER MODEL WITH NARROW LENS @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

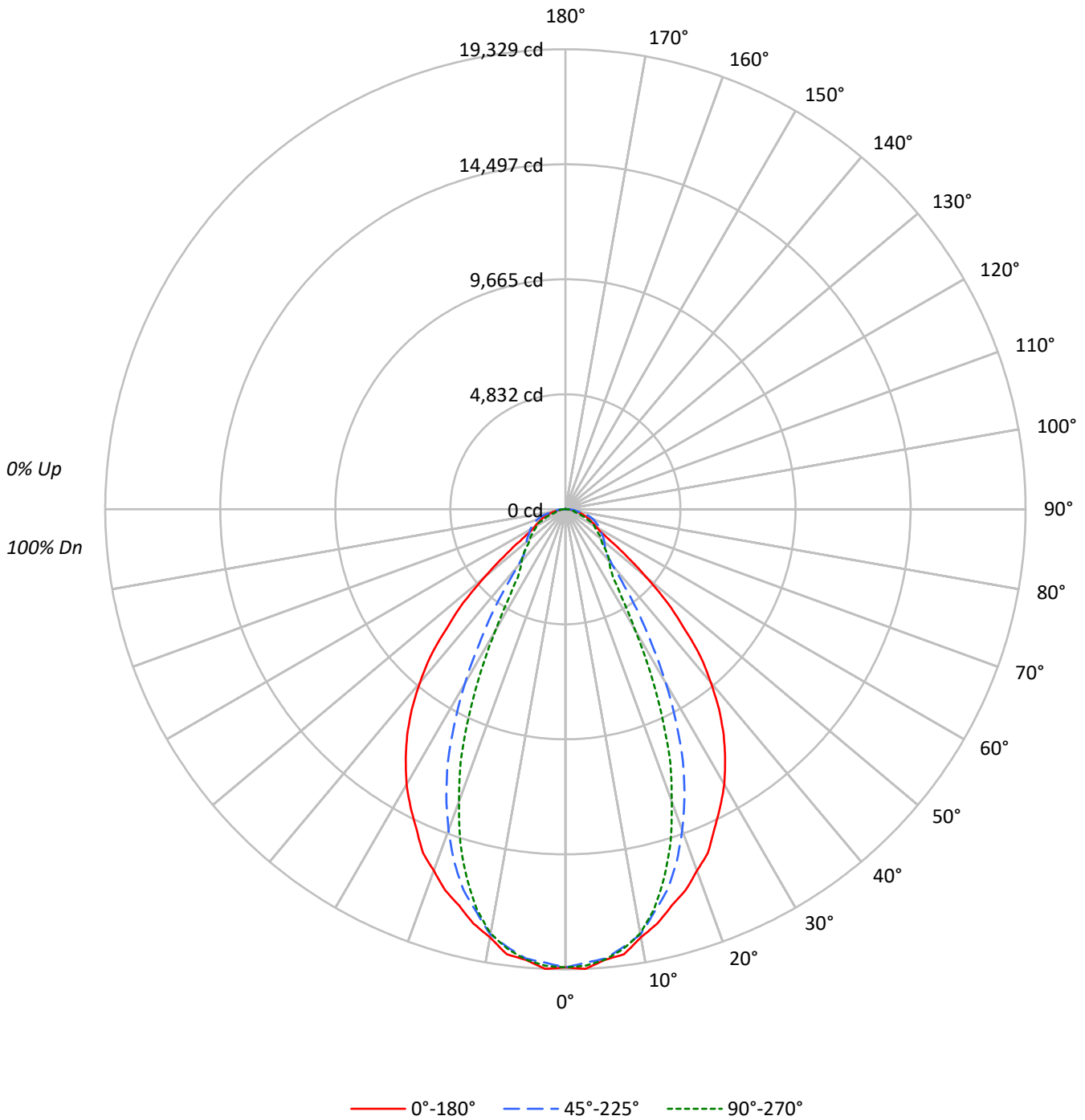
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22786.3 lumens
Efficiency: N/A
Efficacy: 110.6 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): 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	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°	31074	31074	31074
5°	30799	30711	30791
10°	29930	29746	29674
15°	28820	27670	26792
20°	27759	24649	22439
25°	26379	20813	17110
30°	24882	15744	10932
35°	22838	10673	6868
40°	20029	6502	6025
45°	16047	5417	5399
50°	11095	5353	4874
55°	6536	5306	4590
60°	4871	5513	4533
65°	4610	5550	3987
70°	4434	5919	3009
75°	4181	5940	2573
80°	3881	4927	2911
85°	3444	5982	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1787.8	7.8
10°-20°	4629.1	20.3
20°-30°	5407.8	23.7
30°-40°	4012.0	17.6
40°-50°	2659.7	11.7
50°-60°	1763.9	7.7
60°-70°	1316.1	5.8
70°-80°	776.8	3.4
80°-90°	327.1	1.4
90°-100°	70.7	0.3
100°-110°	9.6	0.0
110°-120°	4.9	0.0
120°-130°	4.5	0.0
130°-140°	4.3	0.0
140°-150°	4.4	0.0
150°-160°	4.0	0.0
160°-170°	2.9	0.0
170°-180°	1.1	0.0
0°-30°	11824.6	51.9
0°-40°	15836.6	69.5
0°-60°	20260.2	88.9
0°-90°	22680.2	99.5
90°-120°	85.1	0.4
90°-150°	98.2	0.4
90°-180°	106.0	0.5
0°-180°	22786.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19246	19246	19246	19246	19246	
5°	19003	18986	18949	19017	18998	1798
15°	17242	17036	16554	16268	16028	4864
25°	14807	13742	11683	10021	9604	6820
35°	11587	8585	5415	3661	3484	7192
45°	7028	4146	2372	2462	2364	5409
55°	2322	2040	1885	1820	1631	2285
65°	1207	1348	1453	1420	1044	1203
75°	670	750	952	691	412	707
85°	186	227	323	429	194	201
90°	3	68	161	277	57	12
95°	2	11	64	139	29	1
105°	2	3	6	11	10	2
115°	2	3	5	6	6	2
125°	3	3	5	6	6	2
135°	3	5	5	6	6	3
145°	5	6	6	8	8	3
155°	6	8	8	10	10	3
165°	8	10	10	11	11	2
175°	8	10	11	13	15	1
180°	11	11	11	11	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19245.5	19245.5	19245.5	19245.5	19245.5
2.5°	19328.7	19224.3	19074.3	19209.7	19198.2
5°	19002.6	18986.3	18948.8	19017.2	18997.7
7.5°	18855.8	18767.8	18559.1	18720.5	18629.2
10°	18255.8	18153.0	18143.3	18110.7	18099.2
12.5°	17830.2	17706.3	17310.0	17288.9	17200.8
15°	17241.6	17036.1	16553.5	16268.1	16028.4
17.5°	16785.0	16338.2	15532.7	15001.2	14693.0
20°	16155.6	15663.2	14345.7	13417.9	13059.2
22.5°	15637.1	14764.7	13070.6	11758.0	11511.8
25°	14807.1	13742.4	11683.0	10021.4	9604.0
27.5°	14086.4	12617.3	10045.9	8222.9	7710.9
30°	13346.2	11356.9	8444.7	6458.7	5863.5
32.5°	12483.6	10086.7	6796.2	4846.0	4415.6
35°	11586.8	8584.9	5415.1	3660.6	3484.5
37.5°	10598.7	7234.8	4069.9	3057.3	3086.7
40°	9502.9	6057.5	3085.0	2802.9	2858.4
42.5°	8410.4	5066.2	2566.5	2636.6	2652.9
45°	7027.7	4146.5	2372.5	2462.1	2364.3
47.5°	5819.5	3388.3	2235.5	2225.7	2087.1
50°	4417.2	2762.2	2131.1	2013.7	1940.4
52.5°	3270.9	2330.1	2031.7	1902.9	1827.9
55°	2321.9	2039.8	1884.9	1819.7	1630.6
57.5°	1744.7	1834.4	1772.4	1625.7	1493.6
60°	1508.3	1653.4	1707.2	1532.7	1403.9
62.5°	1361.5	1498.5	1601.2	1477.3	1284.9
65°	1206.6	1348.5	1452.8	1420.2	1043.6
67.5°	1071.3	1229.4	1358.3	1218.0	852.8
70°	939.2	1086.0	1253.9	1033.8	637.5
72.5°	797.3	908.2	1110.4	803.9	464.7
75°	670.2	750.1	952.2	691.4	412.5
77.5°	536.5	603.3	652.2	629.4	363.6
80°	417.4	484.3	529.9	572.3	313.1
82.5°	303.3	347.3	420.7	507.1	260.9
85°	185.9	226.6	322.9	428.8	194.0
87.5°	79.9	138.6	236.4	355.5	127.2
90°	3.3	68.5	161.4	277.2	57.1
92.5°	1.6	29.4	104.4	203.8	37.5
95°	1.6	11.4	63.6	138.6	29.4
97.5°	1.6	4.9	32.6	89.7	21.2
100°	1.6	3.3	17.9	52.2	14.7
102.5°	1.6	3.3	8.2	26.1	11.4
105°	1.6	3.3	6.5	11.4	9.8
107.5°	1.6	3.3	4.9	8.2	8.2
110°	1.6	3.3	4.9	8.2	8.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	3.3	4.9	8.2	8.2
115°	1.6	3.3	4.9	6.5	6.5
117.5°	1.6	3.3	4.9	6.5	6.5
120°	1.6	3.3	4.9	6.5	6.5
122.5°	1.6	3.3	4.9	6.5	6.5
125°	3.3	3.3	4.9	6.5	6.5
127.5°	3.3	4.9	4.9	6.5	6.5
130°	3.3	4.9	4.9	6.5	6.5
132.5°	3.3	4.9	4.9	6.5	6.5
135°	3.3	4.9	4.9	6.5	6.5
137.5°	3.3	4.9	6.5	6.5	6.5
140°	4.9	6.5	6.5	6.5	6.5
142.5°	4.9	6.5	6.5	8.2	6.5
145°	4.9	6.5	6.5	8.2	8.2
147.5°	4.9	6.5	8.2	8.2	8.2
150°	4.9	6.5	8.2	9.8	9.8
152.5°	6.5	6.5	8.2	9.8	9.8
155°	6.5	8.2	8.2	9.8	9.8
157.5°	6.5	8.2	8.2	9.8	11.4
160°	6.5	8.2	9.8	11.4	11.4
162.5°	6.5	8.2	9.8	11.4	11.4
165°	8.2	9.8	9.8	11.4	11.4
167.5°	8.2	9.8	11.4	11.4	13.0
170°	8.2	9.8	11.4	13.0	13.0
172.5°	8.2	9.8	11.4	13.0	13.0
175°	8.2	9.8	11.4	13.0	14.7
177.5°	8.2	9.8	11.4	13.0	14.7
180°	11.4	11.4	11.4	11.4	11.4

(END OF REPORT)