

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: P685537

Luminaire Tested: **8CZL-24-UNV-W-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685537
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-24-UNV-W-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT WIDE LENS MODEL @90 CRI and 5000K
Light Source: (1176) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

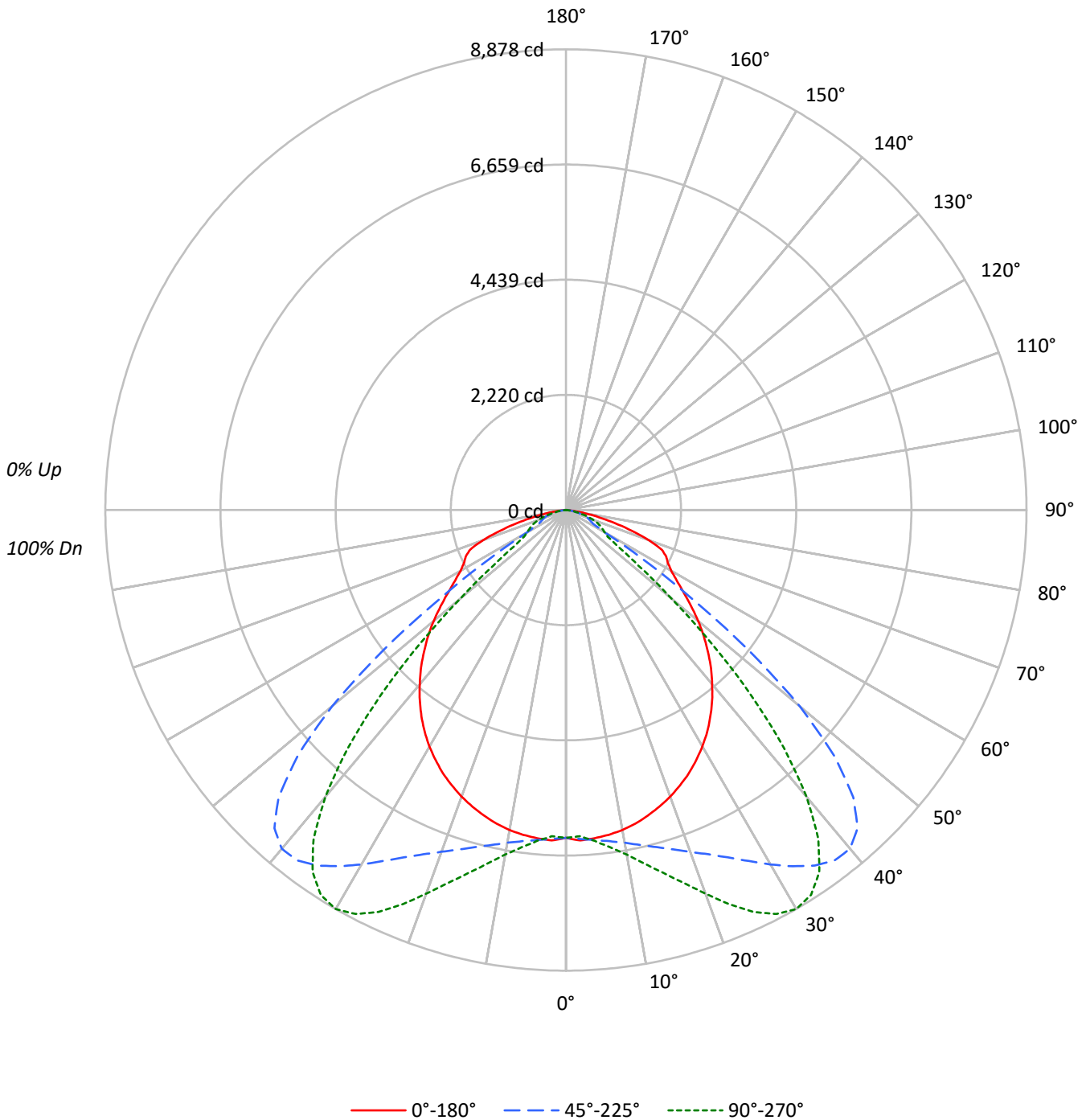
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20206.9 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.69 / 1.65
Luminous Opening: Rectangular (W 0.83' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 154
Input Voltage (V): 120
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	73	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10201	10201	10201
5°	10290	10344	10375
10°	10265	10676	11050
15°	10190	11241	12096
20°	10101	12041	13513
25°	9980	13158	15220
30°	9809	14704	16551
35°	9569	16480	16779
40°	9237	17956	15201
45°	8839	17888	11537
50°	8360	14783	6649
55°	7792	8132	3420
60°	7562	2837	2788
65°	8149	2065	2795
70°	8048	2116	2696
75°	6085	1850	2165
80°	3676	1512	1532
85°	1832	773	326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.5	3.0
10°-20°	1901.4	9.4
20°-30°	3340.2	16.5
30°-40°	4640.3	23.0
40°-50°	4705.9	23.3
50°-60°	3019.9	14.9
60°-70°	1412.5	7.0
70°-80°	489.8	2.4
80°-90°	85.4	0.4
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°	5853.1	29.0
0°-40°	10493.5	51.9
0°-60°	18219.3	90.2
0°-90°	20206.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20206.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6318	6318	6318	6318	6318	
5°	6349	6304	6382	6402	6402	603
15°	6096	6241	6725	7085	7236	1720
25°	5602	6176	7386	8250	8544	2578
35°	4855	6228	8361	8649	8513	3032
45°	3871	6667	7834	5843	5053	2984
55°	2768	6886	2889	1391	1215	2498
65°	2133	2200	540	677	732	2075
75°	975	337	297	342	347	1056
85°	99	89	42	24	18	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1
2.5°	6373.1	6353.3	6320.3	6307.2	6313.8	6346.7	6357.7	6333.5	6326.9	6309.4	6291.8
5°	6348.9	6331.3	6307.2	6302.8	6326.9	6381.9	6406.0	6399.4	6410.4	6412.6	6401.6
7.5°	6313.8	6298.4	6278.6	6298.4	6348.9	6436.8	6491.7	6509.3	6548.8	6557.6	6555.4
10°	6261.0	6247.8	6241.3	6291.8	6379.7	6511.5	6608.1	6656.5	6713.6	6733.4	6739.9
12.5°	6190.7	6177.5	6195.1	6283.0	6421.4	6610.3	6753.1	6838.8	6920.1	6961.8	6975.0
15°	6096.3	6091.9	6135.8	6276.4	6474.1	6724.6	6922.3	7056.3	7172.7	7218.9	7236.4
17.5°	5993.0	5995.2	6074.3	6274.2	6537.8	6858.6	7111.2	7302.3	7445.1	7511.0	7530.8
20°	5878.8	5885.4	6004.0	6272.0	6616.9	7008.0	7319.9	7570.4	7748.3	7836.2	7864.7
22.5°	5744.8	5758.0	5927.1	6274.2	6700.4	7179.3	7566.0	7864.7	8077.8	8183.3	8218.4
25°	5602.0	5621.7	5848.0	6285.2	6805.8	7385.8	7847.2	8196.5	8411.7	8504.0	8543.6
27.5°	5437.2	5470.2	5762.3	6300.6	6931.1	7625.3	8134.9	8471.1	8671.0	8741.3	8776.4
30°	5261.5	5298.8	5678.9	6331.3	7093.6	7886.7	8400.8	8684.2	8818.2	8857.7	8877.5
32.5°	5068.1	5129.7	5595.4	6381.9	7284.8	8139.3	8596.3	8765.4	8798.4	8785.2	8791.8
35°	4855.0	4920.9	5516.3	6465.3	7502.3	8361.2	8673.2	8673.2	8576.5	8517.2	8512.8
37.5°	4628.8	4712.2	5437.2	6562.0	7754.9	8508.4	8589.7	8372.2	8137.1	8009.7	7990.0
40°	4382.7	4494.8	5382.3	6693.8	7983.4	8519.4	8290.9	7842.8	7442.9	7236.4	7212.3
42.5°	4138.9	4277.3	5358.1	6865.2	8154.7	8317.3	7728.5	7036.5	6493.9	6250.0	6223.7
45°	3870.9	4053.2	5366.9	7100.2	8200.9	7834.0	6891.5	5995.2	5386.7	5079.1	5052.8
47.5°	3605.0	3831.3	5388.9	7366.0	7998.7	7014.6	5777.7	4740.8	4136.7	3813.7	3809.3
50°	3328.2	3622.6	5441.6	7583.5	7451.7	5885.4	4409.1	3396.3	2913.0	2667.0	2647.2
52.5°	3040.4	3440.3	5555.8	7623.1	6478.5	4435.4	2992.1	2267.2	1953.0	1797.0	1766.3
55°	2768.0	3286.5	5742.6	7267.2	5079.1	2888.9	1884.9	1430.2	1272.0	1208.3	1214.9
57.5°	2533.0	3172.3	5960.1	6337.9	3297.5	1700.4	1091.8	951.2	946.8	953.4	955.6
60°	2341.8	3102.0	6056.7	4754.0	1810.2	878.7	762.3	793.1	834.8	859.0	863.4
62.5°	2216.6	3064.6	5762.3	2754.9	804.0	612.9	665.6	722.8	771.1	793.1	795.3
65°	2133.1	2965.8	4714.4	1362.0	492.1	540.4	606.3	665.6	709.6	727.2	731.6
67.5°	2003.5	2686.8	3231.6	564.6	432.8	487.7	551.4	608.5	645.9	659.1	661.3
70°	1704.8	2249.6	1878.3	375.7	391.0	448.2	498.7	542.6	566.8	573.4	571.2
72.5°	1331.3	1781.6	949.0	340.5	362.5	393.2	421.8	446.0	459.1	465.7	465.7
75°	975.4	1302.7	446.0	301.0	270.2	296.6	325.1	340.5	344.9	347.1	347.1
77.5°	654.7	898.5	265.8	232.9	208.7	230.7	241.7	235.1	230.7	235.1	235.1
80°	395.4	553.6	232.9	169.2	160.4	162.6	153.8	153.8	162.6	167.0	164.8
82.5°	213.1	314.1	204.3	123.0	107.6	98.9	96.7	92.3	87.9	85.7	85.7
85°	98.9	160.4	131.8	74.7	57.1	41.7	33.0	24.2	22.0	17.6	17.6
87.5°	39.5	61.5	39.5	24.2	13.2	8.8	6.6	4.4	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)