

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: P685474

Luminaire Tested: **8CZL-10-UNV-M-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-10-UNV-M-L950-CD-U
Description: METALUX CRUZE LINEAR 8FT MEDIUM LENS MODEL @90 CRI and 5000K
Light Source: (784) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

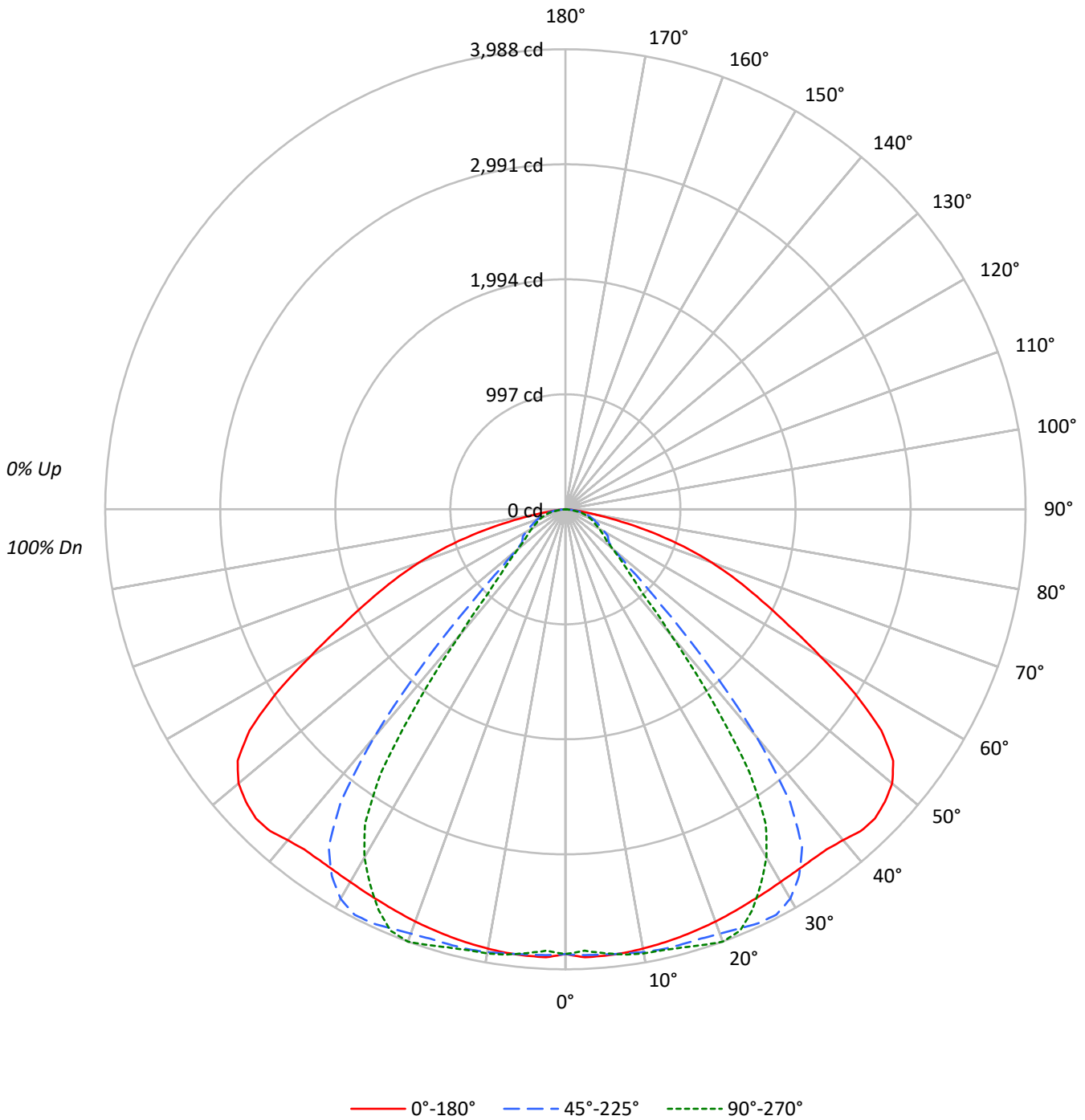
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8331.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.28 / 1.22
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 (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	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	90	90	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	79	79	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	70	70	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	50	50	50	48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	45	45	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	41	41	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	37	37	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	34	34	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6226	6226	6226
5°	6296	6278	6260
10°	6342	6391	6409
15°	6417	6527	6572
20°	6535	6726	6853
25°	6702	7054	6827
30°	6954	7266	6495
35°	7320	7048	5484
40°	7889	5436	3000
45°	8661	2672	1793
50°	9287	1397	1337
55°	9405	1275	1154
60°	8248	1271	1088
65°	7178	1221	1053
70°	6370	1237	1060
75°	4886	1270	1076
80°	2487	1291	892
85°	980	728	254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	4.4
10°-20°	1101.2	13.2
20°-30°	1777.2	21.3
30°-40°	2081.4	25.0
40°-50°	1416.9	17.0
50°-60°	820.5	9.8
60°-70°	469.1	5.6
70°-80°	241.4	2.9
80°-90°	53.8	0.6
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°	3247.9	39.0
0°-40°	5329.3	64.0
0°-60°	7566.7	90.8
0°-90°	8331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3856	3856	3856	3856	3856	
5°	3884	3846	3874	3869	3862	370
15°	3839	3833	3904	3915	3932	1087
25°	3762	3815	3959	3898	3832	1741
35°	3714	3897	3576	3016	2782	2338
45°	3793	2822	1170	788	785	2914
55°	3341	969	453	422	410	2911
65°	1879	346	320	282	276	1884
75°	783	213	204	178	172	833
85°	53	65	39	18	14	90
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°	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1	3856.1
2.5°	3887.2	3876.2	3854.3	3845.2	3845.2	3868.9	3872.6	3857.9	3855.2	3842.4	3830.6
5°	3884.4	3873.5	3852.5	3844.3	3847.0	3873.5	3879.9	3868.0	3871.6	3868.0	3862.5
7.5°	3878.9	3867.1	3847.9	3842.4	3850.6	3884.4	3895.4	3889.0	3897.2	3895.4	3893.5
10°	3868.0	3858.9	3840.6	3839.7	3856.1	3898.1	3911.8	3903.6	3906.3	3905.4	3909.1
12.5°	3853.4	3845.2	3829.6	3837.9	3861.6	3906.3	3915.5	3902.7	3906.3	3907.2	3913.6
15°	3838.8	3828.7	3818.7	3837.9	3862.5	3904.5	3913.6	3911.8	3922.8	3923.7	3931.9
17.5°	3820.5	3814.1	3811.4	3836.9	3856.1	3902.7	3923.7	3934.6	3949.2	3952.9	3961.1
20°	3803.2	3797.7	3804.1	3832.4	3853.4	3914.5	3943.8	3960.2	3975.7	3980.3	3988.5
22.5°	3782.2	3778.5	3795.9	3826.0	3857.9	3932.8	3965.7	3967.5	3961.1	3949.2	3954.7
25°	3762.1	3762.1	3787.7	3824.2	3871.6	3959.3	3962.0	3910.0	3863.4	3832.4	3832.4
27.5°	3745.7	3749.3	3781.3	3832.4	3898.1	3961.1	3885.3	3782.2	3713.7	3669.0	3666.2
30°	3730.1	3736.5	3781.3	3855.2	3917.3	3897.2	3750.2	3625.2	3530.2	3487.3	3483.7
32.5°	3719.2	3729.2	3797.7	3889.9	3894.5	3768.5	3576.8	3418.8	3306.6	3242.6	3231.7
35°	3713.7	3725.6	3828.7	3920.0	3802.3	3575.9	3303.8	3060.1	2882.0	2799.9	2782.5
37.5°	3717.4	3738.4	3871.6	3894.5	3571.3	3197.0	2806.3	2456.6	2212.0	2134.4	2080.5
40°	3742.9	3778.5	3905.4	3686.3	3086.5	2579.0	2061.3	1685.2	1516.3	1460.7	1423.2
42.5°	3785.8	3821.4	3816.9	3209.8	2411.0	1832.2	1328.3	1102.8	1020.6	1011.5	994.2
45°	3793.1	3806.8	3530.2	2586.3	1753.7	1170.3	855.4	788.8	786.9	793.3	785.1
47.5°	3754.8	3728.3	3116.7	1978.3	1207.8	756.8	643.6	654.6	660.0	655.5	649.1
50°	3697.3	3599.6	2652.9	1454.3	805.2	556.0	561.4	571.5	552.3	539.5	532.2
52.5°	3580.4	3390.5	2138.0	1030.7	556.9	474.7	518.5	489.3	461.9	454.6	453.7
55°	3341.2	3080.1	1645.1	743.1	425.4	452.8	461.0	423.6	415.4	411.7	409.9
57.5°	2977.0	2694.0	1237.0	536.8	373.4	437.3	400.8	386.2	377.9	375.2	372.5
60°	2554.3	2262.2	922.0	394.4	362.4	393.5	363.3	349.6	340.5	336.9	336.9
62.5°	2180.0	1872.4	681.9	320.4	359.7	355.1	327.7	313.1	307.6	305.8	304.0
65°	1878.8	1506.3	492.1	296.7	335.9	319.5	293.0	283.0	279.3	275.7	275.7
67.5°	1610.4	1179.5	362.4	291.2	308.6	287.6	267.5	259.3	254.7	253.8	252.9
70°	1349.3	869.1	275.7	284.8	293.0	262.0	242.8	232.8	227.3	224.6	224.6
72.5°	1074.5	596.1	220.0	262.0	268.4	231.9	212.7	205.4	200.8	198.1	197.2
75°	783.3	374.3	193.5	220.0	231.0	203.6	184.4	178.0	176.2	173.5	172.5
77.5°	498.4	223.7	165.2	179.8	189.0	171.6	157.0	148.8	147.9	145.2	144.2
80°	267.5	143.3	132.4	141.5	147.0	138.8	121.4	105.0	100.4	96.8	95.9
82.5°	124.2	91.3	98.6	106.8	109.5	88.6	73.0	65.7	61.2	56.6	53.9
85°	52.9	49.3	61.2	65.7	53.9	39.3	25.6	19.2	15.5	14.6	13.7
87.5°	19.2	19.2	22.8	15.5	9.1	7.3	7.3	6.4	5.5	4.6	4.6
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)