

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: P685536

Luminaire Tested: **8CZL-18-UNV-W-L950-CD-U**

Issue Date: 05/10/2023

Test Information

Test Method: LM-79-08
Report Number: P685536
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8CZL-18-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

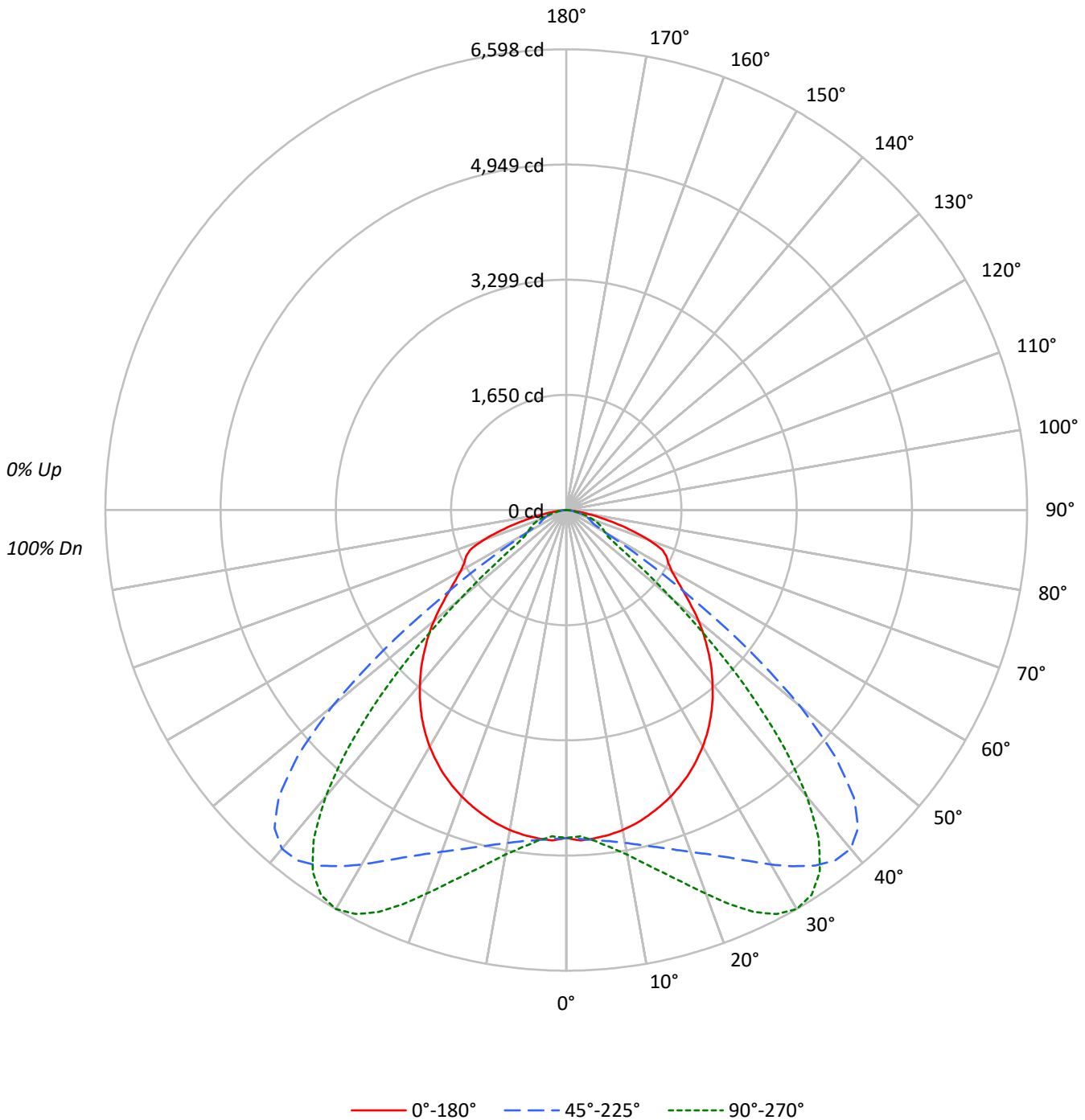
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15018.5 lumens
Efficiency: N/A
Efficacy: 137.8 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): 109
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°	7582	7582	7582
5°	7648	7688	7711
10°	7629	7934	8213
15°	7574	8354	8990
20°	7507	8949	10043
25°	7417	9779	11312
30°	7291	10928	12301
35°	7112	12249	12471
40°	6866	13346	11298
45°	6569	13295	8575
50°	6214	10987	4942
55°	5791	6044	2542
60°	5620	2109	2072
65°	6057	1535	2077
70°	5981	1572	2004
75°	4523	1375	1609
80°	2733	1123	1139
85°	1362	574	243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.5	3.0
10°-20°	1413.2	9.4
20°-30°	2482.5	16.5
30°-40°	3448.9	23.0
40°-50°	3497.6	23.3
50°-60°	2244.5	14.9
60°-70°	1049.8	7.0
70°-80°	364.0	2.4
80°-90°	63.5	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°	4350.2	29.0
0°-40°	7799.1	51.9
0°-60°	13541.2	90.2
0°-90°	15018.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15018.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4696	4696	4696	4696	4696	
5°	4719	4685	4743	4758	4758	448
15°	4531	4639	4998	5266	5378	1278
25°	4164	4590	5489	6132	6350	1916
35°	3608	4629	6214	6428	6327	2253
45°	2877	4955	5822	4343	3755	2218
55°	2057	5118	2147	1034	903	1857
65°	1585	1635	402	503	544	1542
75°	725	251	220	254	258	785
85°	74	66	31	18	13	111
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°	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9	4695.9
2.5°	4736.7	4722.0	4697.5	4687.7	4692.6	4717.1	4725.3	4707.3	4702.4	4689.3	4676.3
5°	4718.7	4705.7	4687.7	4684.4	4702.4	4743.2	4761.2	4756.3	4764.4	4766.1	4757.9
7.5°	4692.6	4681.2	4666.5	4681.2	4718.7	4784.0	4824.9	4837.9	4867.3	4873.8	4872.2
10°	4653.4	4643.6	4638.7	4676.3	4741.6	4839.5	4911.4	4947.3	4989.8	5004.5	5009.4
12.5°	4601.2	4591.4	4604.4	4669.7	4772.6	4913.0	5019.2	5082.8	5143.2	5174.3	5184.1
15°	4531.0	4527.7	4560.3	4664.8	4811.8	4997.9	5144.9	5244.5	5331.0	5365.3	5378.4
17.5°	4454.2	4455.8	4514.6	4663.2	4859.1	5097.5	5285.3	5427.3	5533.5	5582.5	5597.2
20°	4369.3	4374.2	4462.4	4661.6	4917.9	5208.6	5440.4	5626.5	5758.8	5824.1	5845.3
22.5°	4269.7	4279.5	4405.2	4663.2	4980.0	5335.9	5623.3	5845.3	6003.7	6082.1	6108.2
25°	4163.6	4178.3	4346.5	4671.4	5058.3	5489.4	5832.3	6091.9	6251.9	6320.5	6349.9
27.5°	4041.1	4065.6	4282.8	4682.8	5151.4	5667.4	6046.2	6296.0	6444.6	6496.8	6522.9
30°	3910.5	3938.3	4220.7	4705.7	5272.2	5861.7	6243.7	6454.4	6554.0	6583.4	6598.0
32.5°	3766.8	3812.5	4158.7	4743.2	5414.3	6049.4	6389.1	6514.8	6539.3	6529.5	6534.4
35°	3608.4	3657.4	4099.9	4805.3	5575.9	6214.3	6446.2	6446.2	6374.4	6330.3	6327.0
37.5°	3440.3	3502.3	4041.1	4877.1	5763.7	6323.7	6384.2	6222.5	6047.8	5953.1	5938.4
40°	3257.4	3340.7	4000.3	4975.1	5933.5	6331.9	6162.1	5829.0	5531.8	5378.4	5360.4
42.5°	3076.2	3179.0	3982.3	5102.4	6060.9	6181.7	5744.1	5229.8	4826.5	4645.2	4625.7
45°	2877.0	3012.5	3988.9	5277.1	6095.2	5822.5	5122.0	4455.8	4003.6	3775.0	3755.4
47.5°	2679.4	2847.6	4005.2	5474.7	5944.9	5213.5	4294.2	3523.5	3074.5	2834.5	2831.2
50°	2473.7	2692.4	4044.4	5636.3	5538.4	4374.2	3277.0	2524.3	2165.1	1982.2	1967.5
52.5°	2259.8	2556.9	4129.3	5665.7	4815.1	3296.6	2223.8	1685.0	1451.5	1335.6	1312.8
55°	2057.3	2442.6	4268.1	5401.2	3775.0	2147.1	1400.9	1062.9	945.4	898.0	902.9
57.5°	1882.6	2357.7	4429.7	4710.6	2450.8	1263.8	811.5	707.0	703.7	708.6	710.3
60°	1740.5	2305.5	4501.6	3533.3	1345.4	653.1	566.6	589.4	620.5	638.4	641.7
62.5°	1647.5	2277.7	4282.8	2047.5	597.6	455.5	494.7	537.2	573.1	589.4	591.1
65°	1585.4	2204.2	3503.9	1012.3	365.7	401.7	450.6	494.7	527.4	540.4	543.7
67.5°	1489.1	1996.9	2401.8	419.6	321.7	362.5	409.8	452.3	480.0	489.8	491.5
70°	1267.0	1672.0	1396.0	279.2	290.6	333.1	370.6	403.3	421.3	426.2	424.5
72.5°	989.5	1324.2	705.4	253.1	269.4	292.3	313.5	331.5	341.3	346.1	346.1
75°	725.0	968.2	331.5	223.7	200.8	220.4	241.7	253.1	256.3	258.0	258.0
77.5°	486.6	667.8	197.6	173.1	155.1	171.4	179.6	174.7	171.4	174.7	174.7
80°	293.9	411.5	173.1	125.7	119.2	120.8	114.3	114.3	120.8	124.1	122.5
82.5°	158.4	233.5	151.8	91.4	80.0	73.5	71.8	68.6	65.3	63.7	63.7
85°	73.5	119.2	98.0	55.5	42.5	31.0	24.5	18.0	16.3	13.1	13.1
87.5°	29.4	45.7	29.4	18.0	9.8	6.5	4.9	3.3	1.6	1.6	1.6
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)