

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: P685350

Luminaire Tested: **4CZL-7-UNV-L950-CD-U**

Issue Date: 05/10/2023



Test Information

Test Method: LM-79-08
Report Number: P685350
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4CZL-7-UNV-L950-CD-U
Description: METALUX CRUZE LINEAR 4FT BASE MODEL @90 CRI and 5000K
Light Source: (392) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

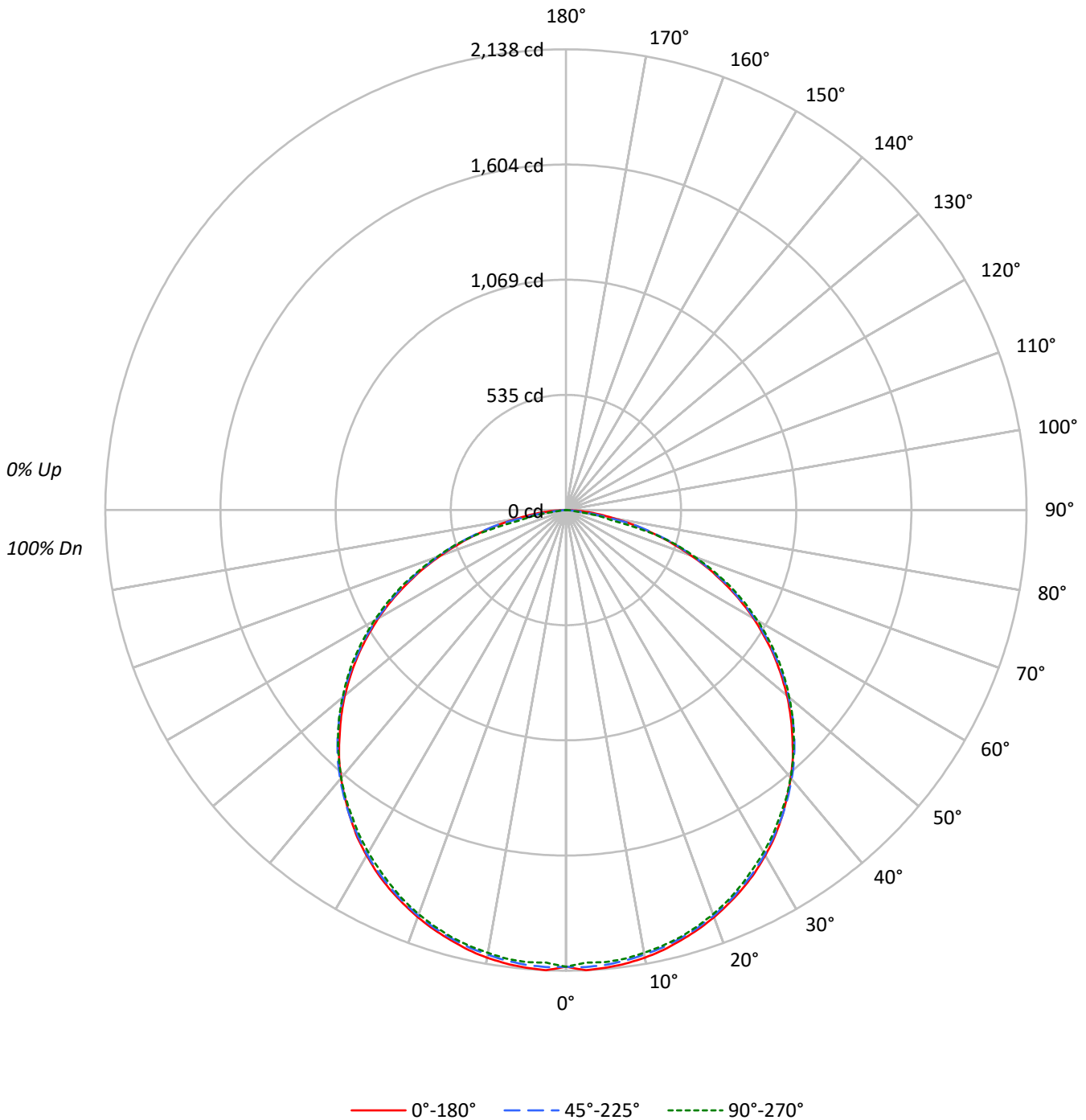
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6286.8 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.83' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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				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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	72	72	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6844	6844	6844
5°	6912	6867	6826
10°	6917	6871	6841
15°	6908	6880	6858
20°	6910	6886	6859
25°	6911	6884	6849
30°	6903	6884	6840
35°	6877	6877	6829
40°	6845	6872	6840
45°	6788	6846	6832
50°	6730	6779	6802
55°	6640	6688	6753
60°	6495	6554	6633
65°	6253	6342	6450
70°	5848	5964	6019
75°	5263	5359	5085
80°	4396	3580	2788
85°	3279	863	311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	3.2
10°-20°	579.7	9.2
20°-30°	887.7	14.1
30°-40°	1086.8	17.3
40°-50°	1149.8	18.3
50°-60°	1060.3	16.9
60°-70°	817.9	13.0
70°-80°	436.8	6.9
80°-90°	66.8	1.1
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°	1668.4	26.5
0°-40°	2755.2	43.8
0°-60°	4965.2	79.0
0°-90°	6286.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6286.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2132	2107	2119	2110	2106	203
15°	2066	2044	2058	2051	2052	584
25°	1940	1920	1932	1918	1922	894
35°	1745	1734	1745	1730	1732	1092
45°	1486	1486	1499	1489	1496	1147
55°	1180	1178	1188	1195	1200	1052
65°	818	818	830	836	844	808
75°	422	421	430	433	408	447
85°	88	63	23	10	8	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2119.3	2119.3	2119.3	2119.3	2119.3
2.5°	2138.0	2112.8	2123.2	2115.4	2102.5
5°	2132.2	2107.0	2118.6	2109.6	2105.7
7.5°	2123.2	2097.3	2109.0	2101.8	2100.6
10°	2109.6	2083.1	2095.4	2087.6	2086.3
12.5°	2091.5	2065.7	2079.2	2070.2	2071.5
15°	2066.3	2044.4	2057.9	2050.8	2051.5
17.5°	2041.1	2018.5	2032.7	2025.6	2026.3
20°	2010.8	1988.8	2003.7	1992.7	1995.9
22.5°	1976.5	1957.2	1970.1	1955.9	1962.3
25°	1939.7	1919.7	1932.0	1917.8	1922.3
27.5°	1897.7	1879.0	1891.3	1876.4	1878.4
30°	1851.2	1834.4	1846.1	1831.2	1834.4
32.5°	1801.5	1786.6	1795.7	1782.1	1786.6
35°	1744.6	1734.3	1744.6	1729.8	1732.4
37.5°	1685.2	1674.9	1689.1	1676.2	1680.7
40°	1623.9	1614.2	1630.3	1617.4	1622.6
42.5°	1558.6	1551.5	1567.7	1554.7	1561.2
45°	1486.3	1485.6	1499.2	1488.9	1496.0
47.5°	1414.6	1413.3	1426.9	1419.7	1428.1
50°	1339.7	1338.4	1349.3	1348.7	1353.9
52.5°	1259.6	1261.5	1271.8	1273.8	1279.6
55°	1179.5	1178.2	1187.9	1195.0	1199.5
57.5°	1092.3	1094.8	1102.6	1111.0	1114.2
60°	1005.7	1004.4	1014.8	1021.9	1027.0
62.5°	914.0	914.0	922.4	932.7	937.9
65°	818.4	818.4	830.0	836.5	844.2
67.5°	720.9	718.9	729.3	743.5	742.2
70°	619.4	620.1	631.7	638.8	637.5
72.5°	518.7	520.6	532.9	536.1	539.3
75°	421.8	421.1	429.5	432.8	407.6
77.5°	325.5	326.2	331.4	242.9	213.2
80°	236.4	237.7	192.5	149.9	149.9
82.5°	156.3	153.7	98.8	58.1	42.6
85°	88.5	63.3	23.3	9.7	8.4
87.5°	36.2	11.6	6.5	4.5	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)