

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: P391053

Luminaire Tested: **24CZ2-130VHE-RDP-UNV-L930-CD2-SDWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P391053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-130VHE-RDP-UNV-L930-CD2-SDWPD1-U
Description: 2x4 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7185.2 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

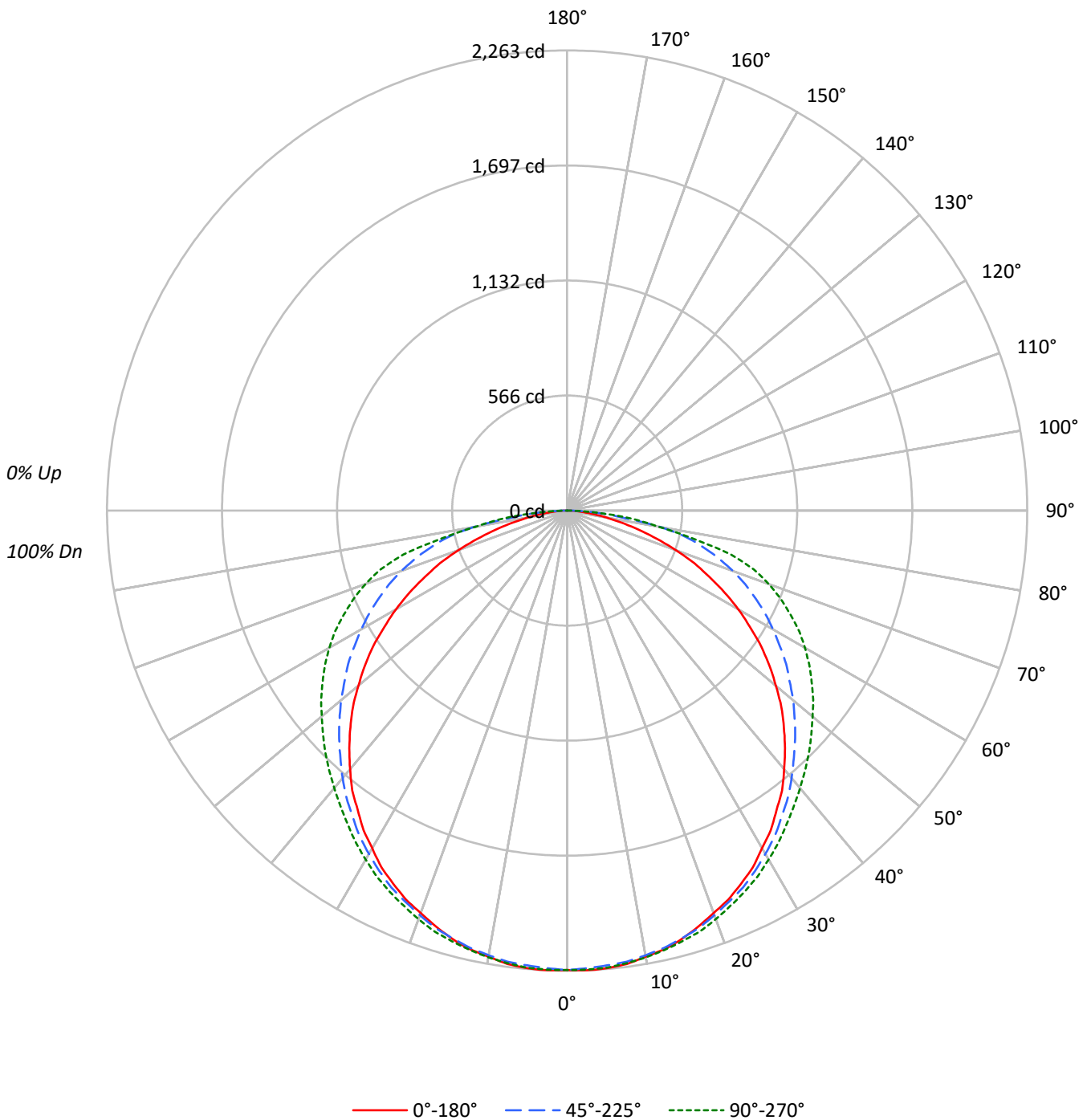
Input Watts (W): 90.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3040	3040	3040
5°	3052	3033	3047
10°	3043	3033	3048
15°	3038	3033	3053
20°	3016	3031	3062
25°	3005	3037	3069
30°	2979	3029	3079
35°	2950	3021	3091
40°	2917	3017	3130
45°	2868	3018	3201
50°	2805	3036	3297
55°	2734	3085	3444
60°	2618	3146	3635
65°	2451	3257	3858
70°	2229	3407	4150
75°	1890	3594	4336
80°	1492	3618	3507
85°	1101	2751	3081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	3.0
10°-20°	616.9	8.6
20°-30°	943.3	13.1
30°-40°	1153.2	16.0
40°-50°	1229.1	17.1
50°-60°	1175.1	16.4
60°-70°	995.5	13.9
70°-80°	669.1	9.3
80°-90°	188.7	2.6
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°	1774.5	24.7
0°-40°	2927.7	40.7
0°-60°	5331.9	74.2
0°-90°	7185.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7185.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2260	2256	2245	2256	2256	215
15°	2181	2181	2178	2195	2192	615
25°	2024	2031	2046	2064	2067	933
35°	1796	1810	1839	1875	1882	1125
45°	1508	1532	1586	1654	1682	1163
55°	1165	1208	1315	1418	1468	1038
65°	770	848	1023	1158	1212	764
75°	364	495	691	809	834	389
85°	71	146	178	192	200	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2259.5	2259.5	2259.5	2259.5	2259.5
2.5°	2263.1	2263.1	2252.4	2259.5	2259.5
5°	2259.5	2256.0	2245.3	2256.0	2256.0
7.5°	2248.8	2245.3	2238.2	2248.8	2245.3
10°	2227.5	2227.5	2220.3	2231.0	2231.0
12.5°	2209.6	2206.1	2202.5	2216.8	2213.2
15°	2181.1	2181.1	2177.6	2195.4	2191.8
17.5°	2145.5	2149.1	2152.6	2166.9	2170.4
20°	2106.3	2113.4	2117.0	2138.4	2138.4
22.5°	2070.7	2074.2	2081.3	2102.7	2102.7
25°	2024.3	2031.4	2045.7	2063.5	2067.1
27.5°	1978.0	1981.6	1999.4	2024.3	2027.9
30°	1917.4	1928.1	1949.5	1978.0	1981.6
32.5°	1863.9	1874.6	1899.6	1928.1	1935.2
35°	1796.2	1810.5	1839.0	1874.6	1881.8
37.5°	1735.6	1746.3	1782.0	1821.2	1831.9
40°	1660.8	1682.2	1717.8	1764.2	1782.0
42.5°	1586.0	1607.3	1650.1	1710.7	1732.1
45°	1507.5	1532.5	1586.0	1653.7	1682.2
47.5°	1429.1	1457.7	1518.2	1596.6	1628.7
50°	1340.0	1375.7	1450.5	1539.6	1575.3
52.5°	1254.5	1297.3	1379.2	1479.0	1525.4
55°	1165.4	1208.2	1315.1	1418.4	1468.3
57.5°	1065.6	1122.6	1240.3	1357.9	1411.3
60°	973.0	1026.4	1169.0	1297.3	1350.7
62.5°	873.2	944.4	1097.7	1233.1	1286.6
65°	769.8	848.2	1022.9	1158.3	1211.7
67.5°	677.1	762.7	948.0	1083.4	1136.9
70°	566.7	673.6	866.0	1001.5	1054.9
72.5°	463.3	580.9	780.5	912.4	962.3
75°	363.5	495.4	691.4	809.0	834.0
77.5°	270.9	409.9	598.7	648.6	630.8
80°	192.5	327.9	466.9	441.9	452.6
82.5°	124.7	249.5	288.7	327.9	338.6
85°	71.3	146.1	178.2	192.5	199.6
87.5°	32.1	53.5	71.3	71.3	67.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)