

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: P391063

Luminaire Tested: **24CZ2-130VHE-RDP-UNV-L950-CD2-SWPD1-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: P391063
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-L950-CD2-SWPD1-U
Description: 2x4 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7992.5 lumens
Efficiency: N/A
Efficacy: 88.1 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

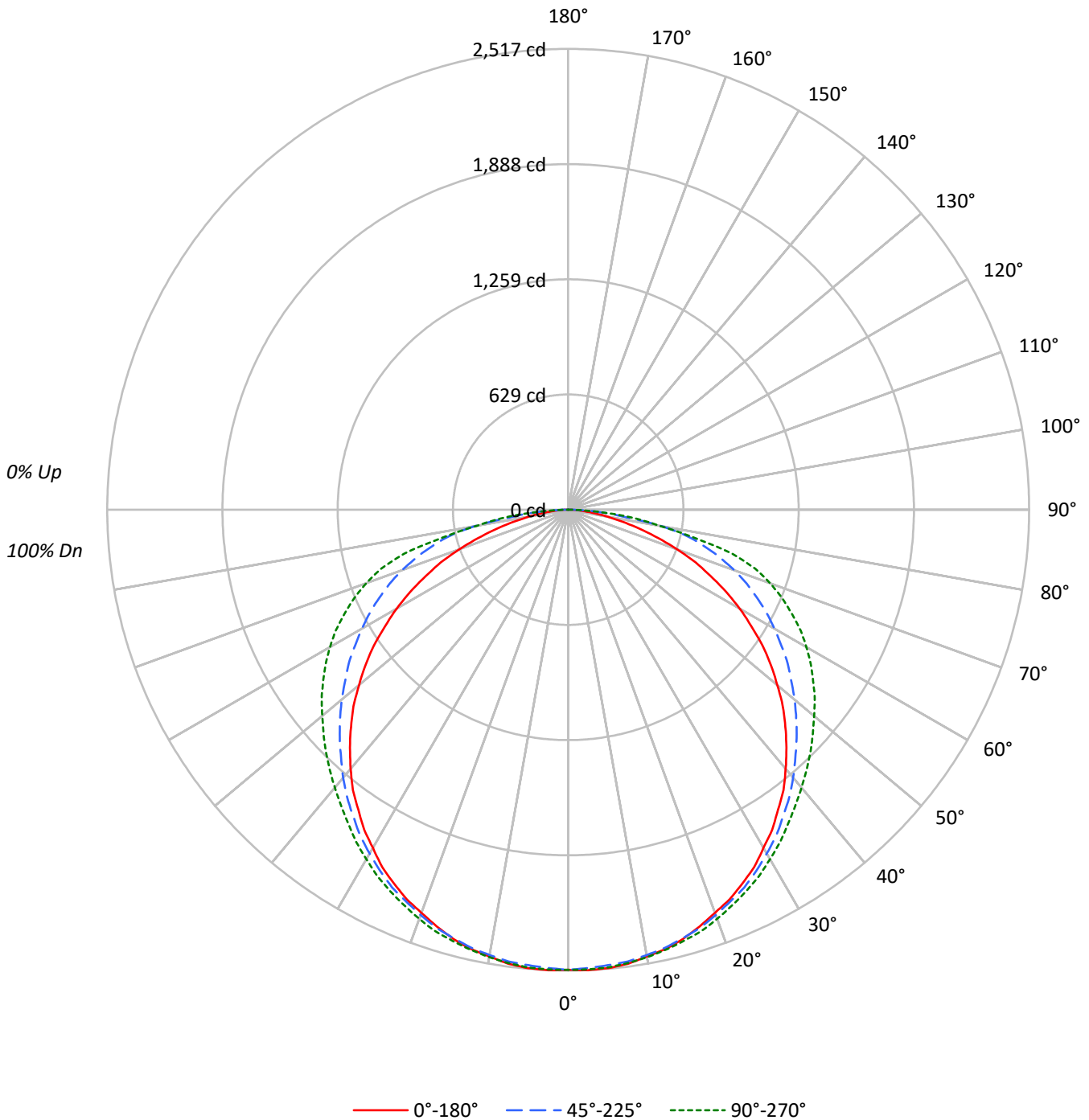
Input Watts (W): 90.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67					67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27					27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3382	3382	3382
5°	3395	3373	3389
10°	3385	3374	3391
15°	3380	3374	3396
20°	3355	3372	3406
25°	3343	3378	3414
30°	3314	3369	3425
35°	3282	3360	3438
40°	3245	3356	3482
45°	3191	3357	3561
50°	3120	3377	3668
55°	3041	3432	3831
60°	2912	3499	4043
65°	2726	3622	4291
70°	2480	3790	4616
75°	2102	3998	4823
80°	1659	4024	3901
85°	1224	3060	3427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	3.0
10°-20°	686.2	8.6
20°-30°	1049.3	13.1
30°-40°	1282.8	16.0
40°-50°	1367.1	17.1
50°-60°	1307.2	16.4
60°-70°	1107.3	13.9
70°-80°	744.2	9.3
80°-90°	209.9	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°	1973.9	24.7
0°-40°	3256.7	40.7
0°-60°	5931.0	74.2
0°-90°	7992.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7992.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2513	2513	2513	2513	2513	
5°	2513	2509	2498	2509	2509	239
15°	2426	2426	2422	2442	2438	684
25°	2252	2260	2276	2295	2299	1038
35°	1998	2014	2046	2085	2093	1252
45°	1677	1705	1764	1840	1871	1293
55°	1296	1344	1463	1578	1633	1155
65°	856	944	1138	1288	1348	850
75°	404	551	769	900	928	433
85°	79	162	198	214	222	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2513.4	2513.4	2513.4	2513.4	2513.4
2.5°	2517.4	2517.4	2505.5	2513.4	2513.4
5°	2513.4	2509.4	2497.6	2509.4	2509.4
7.5°	2501.5	2497.6	2489.6	2501.5	2497.6
10°	2477.7	2477.7	2469.8	2481.7	2481.7
12.5°	2457.9	2453.9	2450.0	2465.8	2461.9
15°	2426.2	2426.2	2422.2	2442.1	2438.1
17.5°	2386.6	2390.5	2394.5	2410.3	2414.3
20°	2342.9	2350.9	2354.8	2378.6	2378.6
22.5°	2303.3	2307.3	2315.2	2339.0	2339.0
25°	2251.8	2259.7	2275.6	2295.4	2299.3
27.5°	2200.2	2204.2	2224.0	2251.8	2255.7
30°	2132.8	2144.7	2168.5	2200.2	2204.2
32.5°	2073.4	2085.3	2113.0	2144.7	2152.7
35°	1998.0	2013.9	2045.6	2085.3	2093.2
37.5°	1930.7	1942.5	1982.2	2025.8	2037.7
40°	1847.4	1871.2	1910.8	1962.4	1982.2
42.5°	1764.1	1787.9	1835.5	1902.9	1926.7
45°	1676.9	1704.7	1764.1	1839.5	1871.2
47.5°	1589.7	1621.4	1688.8	1776.0	1811.7
50°	1490.6	1530.2	1613.5	1712.6	1752.3
52.5°	1395.5	1443.0	1534.2	1645.2	1696.8
55°	1296.4	1343.9	1462.9	1577.8	1633.3
57.5°	1185.3	1248.8	1379.6	1510.4	1569.9
60°	1082.3	1141.7	1300.3	1443.0	1502.5
62.5°	971.3	1050.6	1221.0	1371.7	1431.1
65°	856.3	943.5	1137.8	1288.4	1347.9
67.5°	753.2	848.4	1054.5	1205.2	1264.6
70°	630.3	749.3	963.3	1114.0	1173.5
72.5°	515.4	646.2	868.2	1014.9	1070.4
75°	404.4	551.0	769.1	899.9	927.7
77.5°	301.3	455.9	666.0	721.5	701.7
80°	214.1	364.7	519.3	491.6	503.5
82.5°	138.8	277.5	321.1	364.7	376.6
85°	79.3	162.5	198.2	214.1	222.0
87.5°	35.7	59.5	79.3	79.3	75.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)