

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: P388461

Luminaire Tested: **22CZ2-75VHE-UNV-L930-CD1-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: P388461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-UNV-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6083.5 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

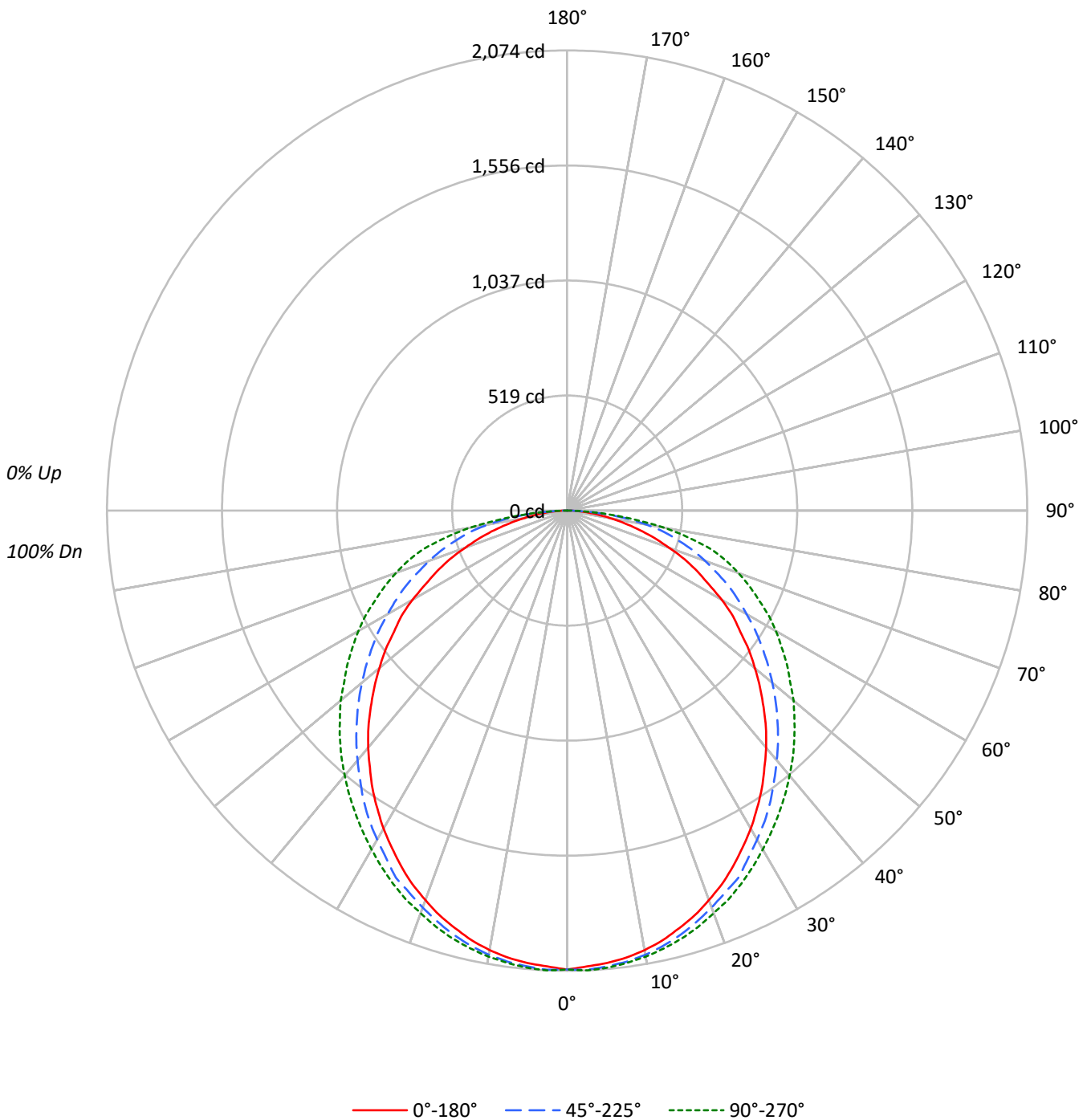
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5566	5566	5566
5°	5531	5571	5588
10°	5497	5554	5579
15°	5429	5512	5563
20°	5349	5452	5529
25°	5253	5422	5511
30°	5144	5321	5479
35°	5025	5251	5468
40°	4900	5163	5479
45°	4762	5104	5514
50°	4624	5050	5577
55°	4466	5028	5674
60°	4334	5027	5848
65°	4117	5109	6061
70°	3839	5205	6453
75°	3517	5385	6971
80°	3062	5613	6865
85°	2680	4989	5453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	3.2
10°-20°	557.2	9.2
20°-30°	836.5	13.7
30°-40°	999.5	16.4
40°-50°	1039.3	17.1
50°-60°	963.3	15.8
60°-70°	790.1	13.0
70°-80°	534.1	8.8
80°-90°	167.8	2.8
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°	1589.3	26.1
0°-40°	2588.8	42.6
0°-60°	4591.4	75.5
0°-90°	6083.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6083.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2068	2068	2068	2068	2068	
5°	2048	2050	2062	2066	2068	194
15°	1949	1958	1979	1991	1997	550
25°	1769	1784	1826	1847	1856	815
35°	1530	1551	1598	1646	1664	956
45°	1251	1275	1341	1419	1449	966
55°	952	982	1072	1168	1209	856
65°	647	682	802	907	952	639
75°	338	395	518	623	670	359
85°	87	120	162	180	177	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2056.5	2062.5	2071.5	2074.5	2074.5
5°	2047.5	2050.5	2062.5	2065.5	2068.5
7.5°	2032.6	2038.6	2050.5	2053.5	2056.5
10°	2011.6	2017.6	2032.6	2038.6	2041.6
12.5°	1984.7	1990.7	2008.6	2017.6	2020.6
15°	1948.8	1957.7	1978.7	1990.7	1996.7
17.5°	1912.8	1921.8	1942.8	1960.7	1966.7
20°	1867.9	1888.9	1903.9	1927.8	1930.8
22.5°	1823.0	1835.0	1862.0	1885.9	1897.9
25°	1769.2	1784.1	1826.0	1847.0	1856.0
27.5°	1712.3	1733.2	1766.2	1799.1	1811.1
30°	1655.4	1670.4	1712.3	1751.2	1763.2
32.5°	1592.5	1613.5	1658.4	1697.3	1715.3
35°	1529.7	1550.6	1598.5	1646.4	1664.4
37.5°	1460.8	1484.8	1532.7	1589.5	1613.5
40°	1395.0	1412.9	1469.8	1538.7	1559.6
42.5°	1326.1	1347.1	1406.9	1481.8	1505.7
45°	1251.3	1275.2	1341.1	1418.9	1448.8
47.5°	1179.4	1203.4	1275.2	1353.1	1389.0
50°	1104.6	1134.5	1206.4	1296.2	1332.1
52.5°	1032.8	1059.7	1140.5	1233.3	1266.2
55°	951.9	981.9	1071.7	1167.5	1209.4
57.5°	886.1	907.0	1005.8	1104.6	1146.5
60°	805.2	832.2	934.0	1038.7	1086.6
62.5°	718.4	763.3	868.1	975.9	1023.8
65°	646.6	682.5	802.3	907.0	951.9
67.5°	571.8	610.7	727.4	838.2	889.1
70°	487.9	538.8	661.6	772.3	820.2
72.5°	413.1	467.0	592.7	700.5	751.4
75°	338.3	395.1	517.9	622.6	670.5
77.5°	266.4	329.3	449.0	529.8	559.8
80°	197.6	257.4	362.2	419.1	443.0
82.5°	137.7	188.6	266.4	296.4	302.3
85°	86.8	119.7	161.6	179.6	176.6
87.5°	38.9	47.9	59.9	65.9	62.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)