

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: P388463

Luminaire Tested: **22CZ2-75VHE-UNV-L930-CD1-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: P388463
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-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

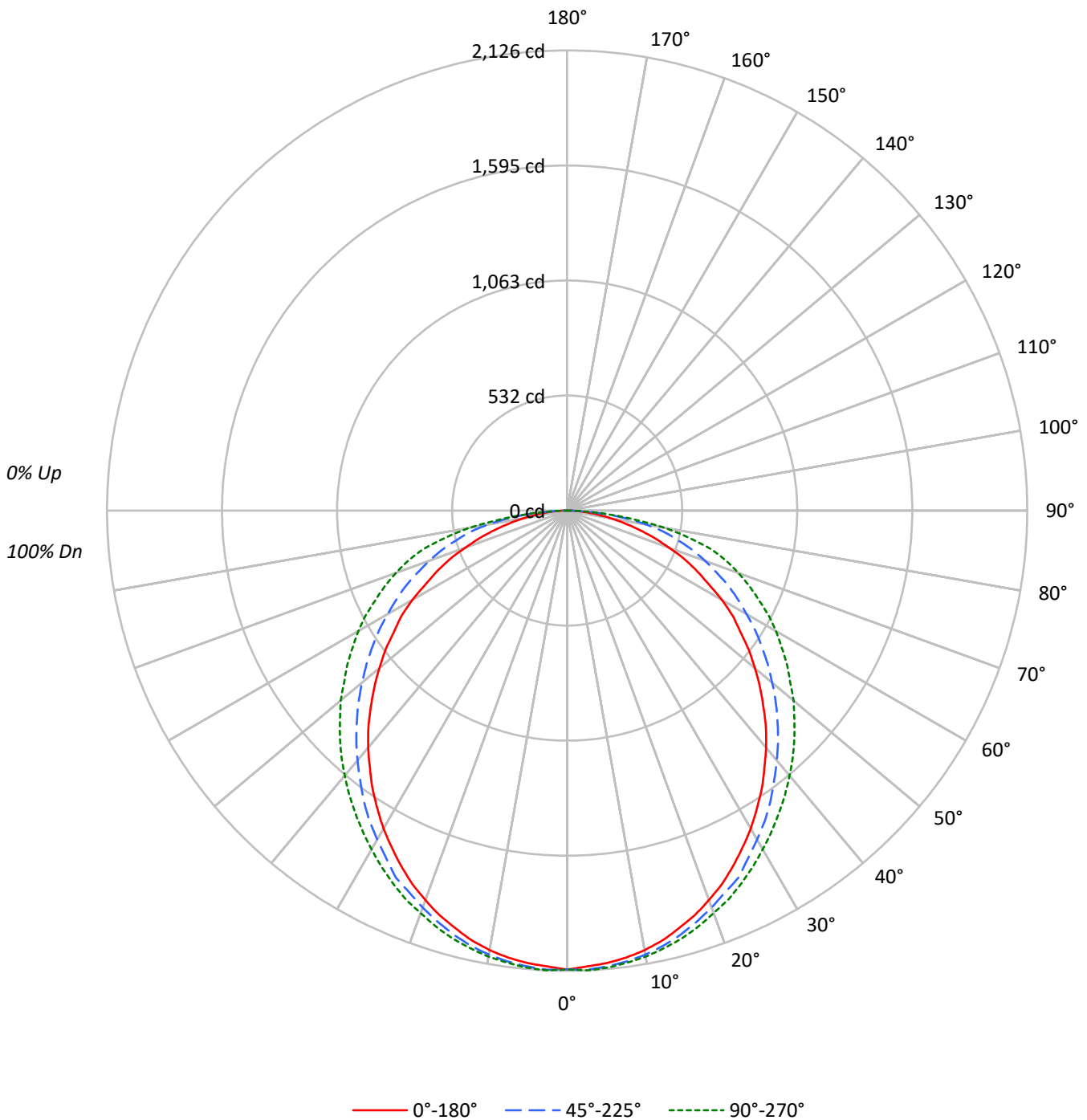
Lumens per Lamp: N/A
Luminaire Lumens: 6235.1 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5705	5705	5705
5°	5669	5710	5727
10°	5634	5692	5717
15°	5564	5650	5701
20°	5483	5588	5667
25°	5384	5557	5648
30°	5272	5453	5615
35°	5150	5382	5604
40°	5022	5292	5615
45°	4881	5231	5651
50°	4739	5176	5716
55°	4578	5153	5815
60°	4442	5152	5994
65°	4220	5235	6213
70°	3935	5334	6615
75°	3605	5519	7146
80°	3138	5752	7037
85°	2748	5116	5588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	3.2
10°-20°	571.1	9.2
20°-30°	857.3	13.7
30°-40°	1024.4	16.4
40°-50°	1065.2	17.1
50°-60°	987.3	15.8
60°-70°	809.8	13.0
70°-80°	547.5	8.8
80°-90°	172.0	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°	1628.9	26.1
0°-40°	2653.3	42.6
0°-60°	4705.8	75.5
0°-90°	6235.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6235.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2120	2120	2120	2120	2120	
5°	2099	2102	2114	2117	2120	199
15°	1997	2006	2028	2040	2046	563
25°	1813	1829	1872	1893	1902	835
35°	1568	1589	1638	1687	1706	980
45°	1282	1307	1374	1454	1485	990
55°	976	1006	1098	1197	1240	877
65°	663	700	822	930	976	655
75°	347	405	531	638	687	368
85°	89	123	166	184	181	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2120.0	2120.0	2120.0	2120.0	2120.0
2.5°	2107.8	2113.9	2123.1	2126.2	2126.2
5°	2098.6	2101.6	2113.9	2117.0	2120.0
7.5°	2083.2	2089.4	2101.6	2104.7	2107.8
10°	2061.8	2067.9	2083.2	2089.4	2092.4
12.5°	2034.1	2040.3	2058.7	2067.9	2071.0
15°	1997.3	2006.5	2028.0	2040.3	2046.4
17.5°	1960.5	1969.7	1991.2	2009.6	2015.7
20°	1914.5	1936.0	1951.3	1975.8	1978.9
22.5°	1868.5	1880.7	1908.4	1932.9	1945.2
25°	1813.2	1828.6	1871.5	1893.0	1902.2
27.5°	1754.9	1776.4	1810.2	1843.9	1856.2
30°	1696.7	1712.0	1754.9	1794.8	1807.1
32.5°	1632.2	1653.7	1699.7	1739.6	1758.0
35°	1567.8	1589.3	1638.4	1687.4	1705.9
37.5°	1497.2	1521.8	1570.9	1629.2	1653.7
40°	1429.7	1448.1	1506.4	1577.0	1598.5
42.5°	1359.2	1380.6	1442.0	1518.7	1543.2
45°	1282.5	1307.0	1374.5	1454.3	1485.0
47.5°	1208.8	1233.4	1307.0	1386.8	1423.6
50°	1132.1	1162.8	1236.4	1328.5	1365.3
52.5°	1058.5	1086.1	1168.9	1264.1	1297.8
55°	975.7	1006.3	1098.4	1196.6	1239.5
57.5°	908.2	929.6	1030.9	1132.1	1175.1
60°	825.3	852.9	957.2	1064.6	1113.7
62.5°	736.3	782.4	889.7	1000.2	1049.3
65°	662.7	699.5	822.2	929.6	975.7
67.5°	586.0	625.9	745.5	859.1	911.2
70°	500.1	552.3	678.0	791.6	840.7
72.5°	423.4	478.6	607.5	717.9	770.1
75°	346.7	405.0	530.8	638.2	687.3
77.5°	273.1	337.5	460.2	543.1	573.7
80°	202.5	263.9	371.2	429.5	454.1
82.5°	141.1	193.3	273.1	303.7	309.9
85°	89.0	122.7	165.7	184.1	181.0
87.5°	39.9	49.1	61.4	67.5	64.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)