

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: P388462

Luminaire Tested: **22CZ2-75VHE-UNV-L930-CD1-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: P388462
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-SWPD1-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: 6157.7 lumens
Efficiency: N/A
Efficacy: 112.6 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

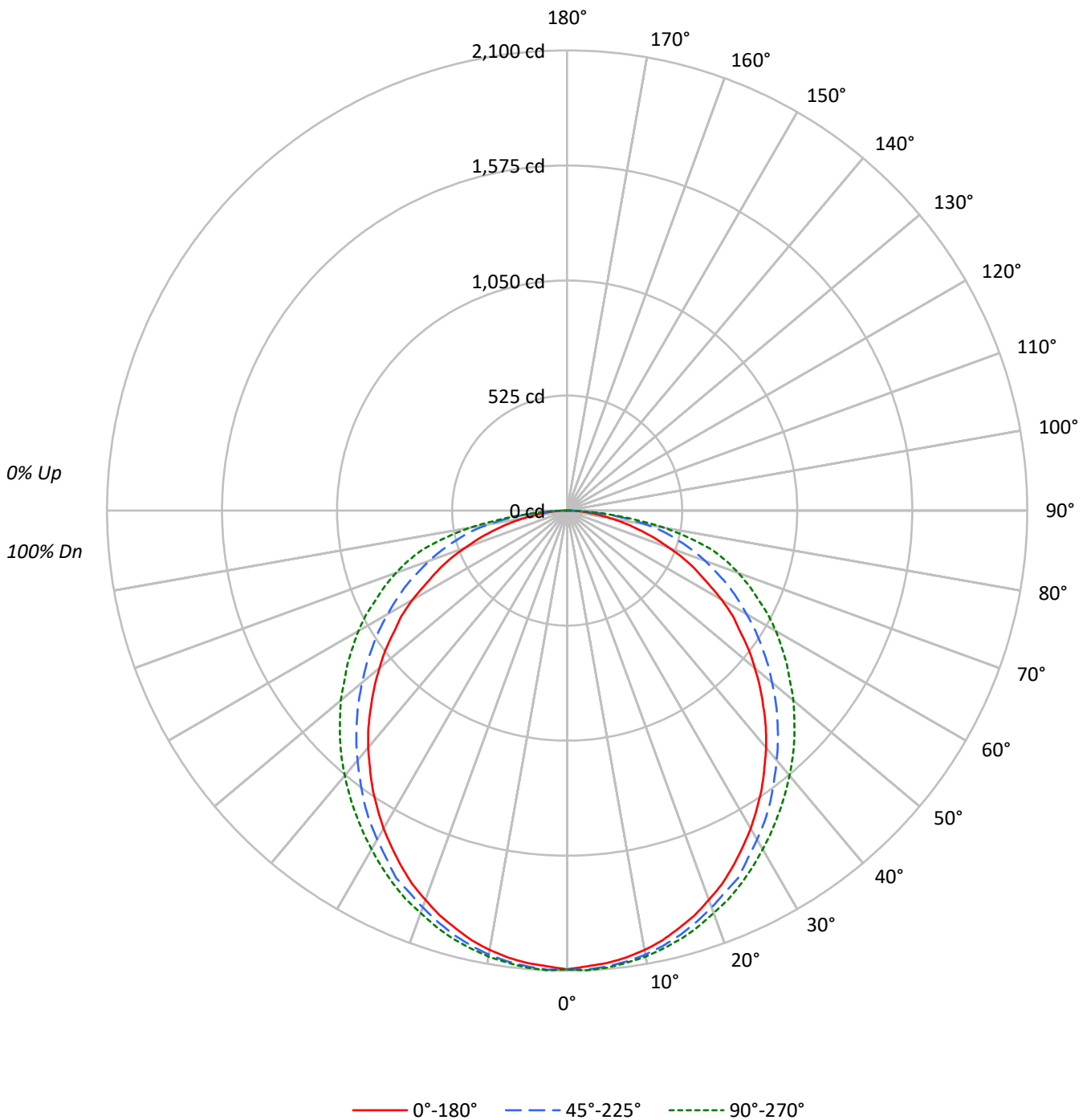
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5634	5634	5634
5°	5598	5639	5656
10°	5564	5622	5647
15°	5495	5580	5630
20°	5414	5519	5597
25°	5317	5488	5578
30°	5207	5386	5546
35°	5086	5315	5534
40°	4960	5226	5545
45°	4820	5166	5581
50°	4681	5112	5645
55°	4520	5089	5743
60°	4387	5088	5920
65°	4167	5170	6135
70°	3886	5268	6532
75°	3560	5450	7057
80°	3099	5681	6949
85°	2714	5051	5521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	3.2
10°-20°	564.0	9.2
20°-30°	846.7	13.7
30°-40°	1011.7	16.4
40°-50°	1052.0	17.1
50°-60°	975.0	15.8
60°-70°	799.8	13.0
70°-80°	540.6	8.8
80°-90°	169.9	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°	1608.7	26.1
0°-40°	2620.4	42.6
0°-60°	4647.4	75.5
0°-90°	6157.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6157.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2072	2076	2088	2091	2094	197
15°	1972	1982	2003	2015	2021	556
25°	1791	1806	1848	1870	1879	825
35°	1548	1570	1618	1666	1685	968
45°	1266	1291	1357	1436	1466	978
55°	964	994	1085	1182	1224	866
65°	654	691	812	918	964	647
75°	342	400	524	630	679	363
85°	88	121	164	182	179	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2093.7	2093.7	2093.7	2093.7	2093.7
2.5°	2081.6	2087.7	2096.8	2099.8	2099.8
5°	2072.5	2075.6	2087.7	2090.7	2093.7
7.5°	2057.4	2063.4	2075.6	2078.6	2081.6
10°	2036.2	2042.2	2057.4	2063.4	2066.5
12.5°	2008.9	2015.0	2033.1	2042.2	2045.3
15°	1972.5	1981.6	2002.8	2015.0	2021.0
17.5°	1936.2	1945.3	1966.5	1984.7	1990.7
20°	1890.7	1911.9	1927.1	1951.3	1954.4
22.5°	1845.3	1857.4	1884.7	1908.9	1921.0
25°	1790.7	1805.9	1848.3	1869.5	1878.6
27.5°	1733.2	1754.4	1787.7	1821.0	1833.2
30°	1675.6	1690.7	1733.2	1772.6	1784.7
32.5°	1612.0	1633.2	1678.6	1718.0	1736.2
35°	1548.3	1569.5	1618.0	1666.5	1684.7
37.5°	1478.6	1502.9	1551.4	1608.9	1633.2
40°	1412.0	1430.2	1487.7	1557.4	1578.6
42.5°	1342.3	1363.5	1424.1	1499.9	1524.1
45°	1266.5	1290.8	1357.4	1436.2	1466.5
47.5°	1193.8	1218.1	1290.8	1369.6	1405.9
50°	1118.1	1148.4	1221.1	1312.0	1348.4
52.5°	1045.4	1072.6	1154.4	1248.4	1281.7
55°	963.5	993.8	1084.7	1181.7	1224.1
57.5°	896.9	918.1	1018.1	1118.1	1160.5
60°	815.1	842.3	945.4	1051.4	1099.9
62.5°	727.2	772.7	878.7	987.8	1036.3
65°	654.5	690.8	812.0	918.1	963.5
67.5°	578.7	618.1	736.3	848.4	899.9
70°	493.9	545.4	669.6	781.7	830.2
72.5°	418.1	472.7	599.9	709.0	760.5
75°	342.4	400.0	524.2	630.2	678.7
77.5°	269.7	333.3	454.5	536.3	566.6
80°	200.0	260.6	366.6	424.2	448.4
82.5°	139.4	190.9	269.7	300.0	306.0
85°	87.9	121.2	163.6	181.8	178.8
87.5°	39.4	48.5	60.6	66.7	63.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)