

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: P389349

Luminaire Tested: **22CZ2-65VHE-S-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: P389349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-65VHE-S-UNV-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5547.9 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

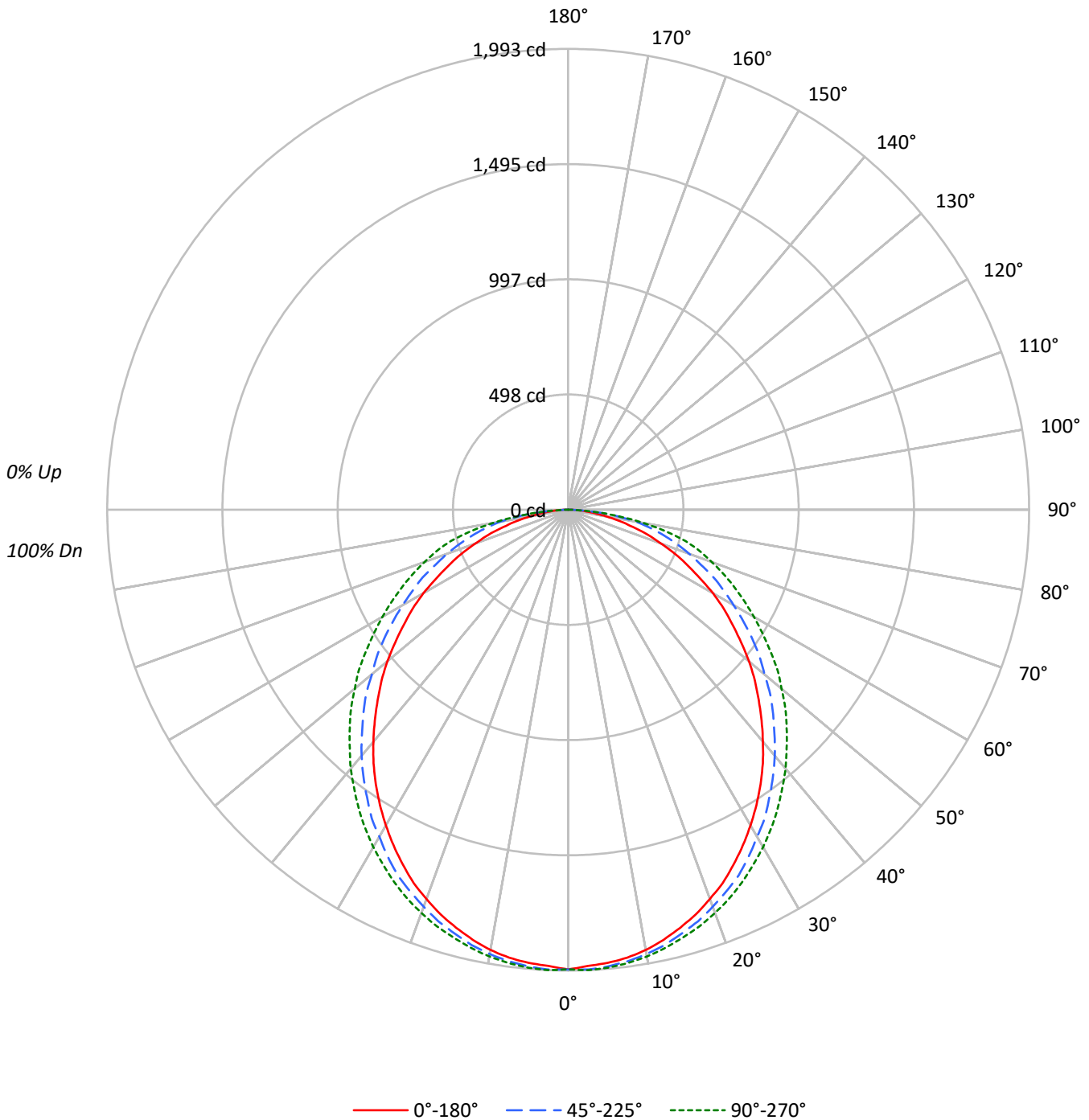
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5350	5350	5350
5°	5314	5356	5370
10°	5284	5333	5361
15°	5214	5286	5336
20°	5130	5233	5315
25°	5027	5180	5280
30°	4898	5075	5236
35°	4762	4983	5187
40°	4601	4883	5138
45°	4433	4768	5083
50°	4270	4638	5039
55°	4069	4554	5004
60°	3887	4444	4987
65°	3626	4417	5044
70°	3340	4378	5194
75°	3014	4441	5464
80°	2608	4573	5134
85°	2158	3835	3835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	3.4
10°-20°	535.0	9.6
20°-30°	800.5	14.4
30°-40°	948.0	17.1
40°-50°	966.1	17.4
50°-60°	865.9	15.6
60°-70°	677.9	12.2
70°-80°	437.2	7.9
80°-90°	129.1	2.3
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°	1523.5	27.5
0°-40°	2471.6	44.5
0°-60°	4303.6	77.6
0°-90°	5547.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5547.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1988	1988	1988	1988	1988	
5°	1967	1972	1983	1985	1988	187
15°	1872	1882	1897	1913	1916	528
25°	1693	1708	1745	1768	1778	779
35°	1450	1468	1517	1564	1579	906
45°	1165	1191	1253	1318	1336	900
55°	867	896	971	1038	1066	778
65°	570	603	694	761	792	566
75°	290	334	427	500	526	311
85°	70	96	124	124	124	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.0	1988.0	1988.0	1988.0	1988.0
2.5°	1975.0	1980.2	1990.6	1993.2	1993.2
5°	1967.3	1972.5	1982.8	1985.4	1988.0
7.5°	1954.3	1956.9	1969.9	1975.0	1977.6
10°	1933.6	1938.8	1951.7	1959.5	1962.1
12.5°	1905.2	1912.9	1928.4	1938.8	1941.4
15°	1871.5	1881.9	1897.4	1912.9	1915.5
17.5°	1835.3	1845.6	1866.3	1884.4	1889.6
20°	1791.3	1804.2	1827.5	1848.2	1856.0
22.5°	1747.3	1757.6	1786.1	1812.0	1819.7
25°	1692.9	1708.4	1744.7	1768.0	1778.3
27.5°	1635.9	1654.1	1690.3	1721.4	1731.7
30°	1576.4	1594.5	1633.4	1672.2	1685.1
32.5°	1514.3	1535.0	1581.6	1620.4	1633.4
35°	1449.6	1467.7	1516.9	1563.5	1579.0
37.5°	1382.3	1397.8	1454.7	1503.9	1519.5
40°	1309.8	1330.5	1390.0	1447.0	1462.5
42.5°	1237.3	1260.6	1320.1	1382.3	1397.8
45°	1164.8	1190.7	1252.8	1317.6	1335.7
47.5°	1094.9	1115.7	1185.5	1247.7	1273.6
50°	1019.9	1040.6	1107.9	1177.8	1203.7
52.5°	942.2	970.7	1043.2	1110.5	1141.5
55°	867.2	895.6	970.7	1038.0	1066.5
57.5°	797.3	820.6	898.2	968.1	996.6
60°	722.2	742.9	825.7	900.8	926.7
62.5°	642.0	673.0	758.4	828.3	859.4
65°	569.5	603.1	693.7	761.0	792.1
67.5°	502.2	533.2	621.2	693.7	727.4
70°	424.5	465.9	556.5	629.0	660.1
72.5°	362.4	398.6	491.8	564.3	597.9
75°	289.9	333.9	427.1	499.6	525.5
77.5°	230.4	274.4	362.4	419.3	432.3
80°	168.3	212.3	295.1	323.6	331.3
82.5°	113.9	155.3	212.3	220.0	222.6
85°	69.9	95.8	124.2	124.2	124.2
87.5°	33.7	38.8	44.0	41.4	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)