

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: P389359

Luminaire Tested: **22CZ2-65VHE-S-UNV-L950-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: P389359
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-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6171.3 lumens
Efficiency: N/A
Efficacy: 128.8 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

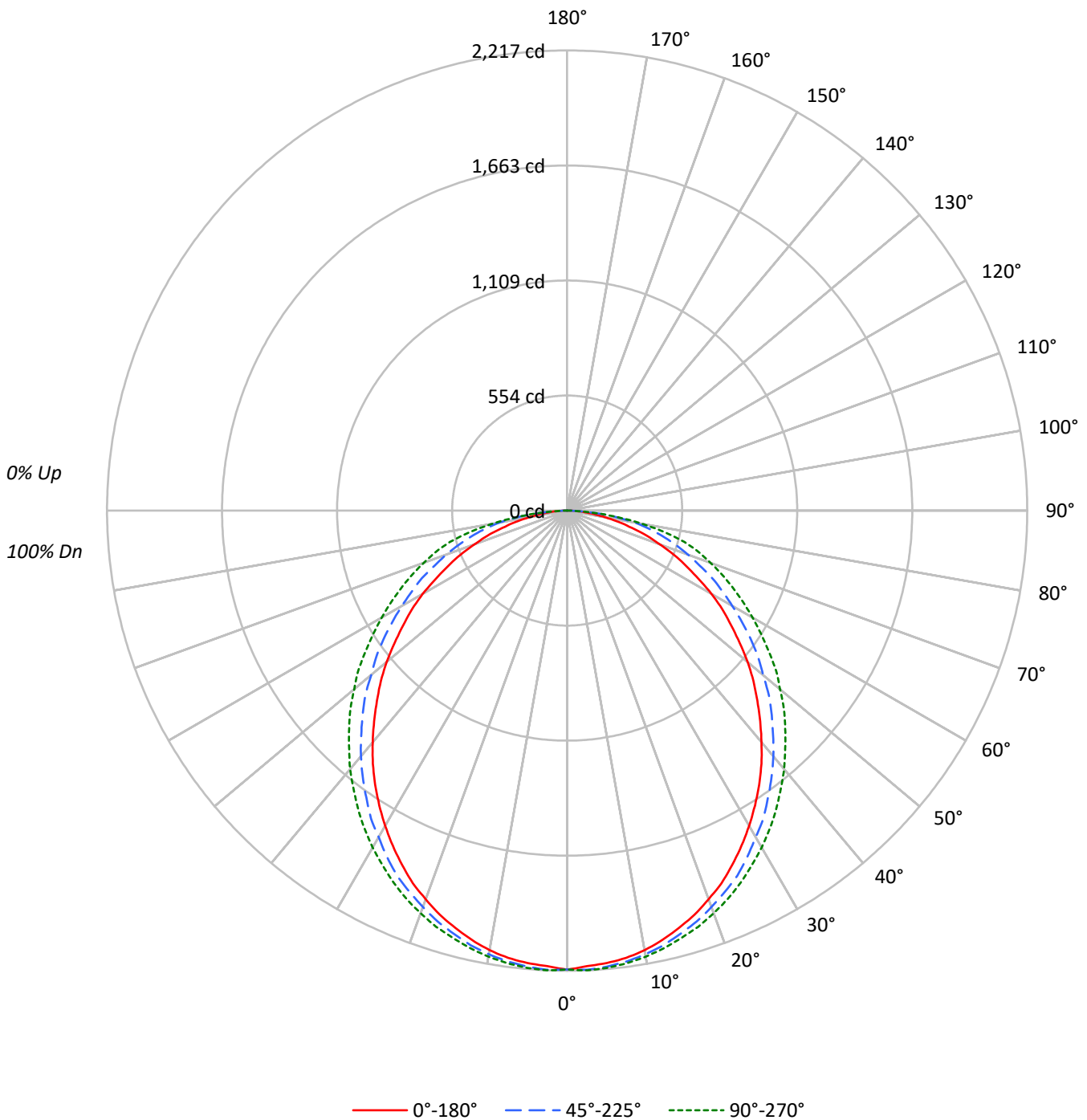
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5951	5951	5951
5°	5911	5958	5974
10°	5877	5933	5964
15°	5800	5880	5936
20°	5706	5821	5912
25°	5591	5762	5873
30°	5449	5646	5825
35°	5297	5543	5770
40°	5118	5432	5715
45°	4931	5304	5654
50°	4749	5159	5605
55°	4525	5066	5566
60°	4323	4943	5548
65°	4034	4914	5610
70°	3715	4871	5777
75°	3353	4940	6077
80°	2901	5088	5712
85°	2399	4267	4267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	3.4
10°-20°	595.1	9.6
20°-30°	890.5	14.4
30°-40°	1054.5	17.1
40°-50°	1074.7	17.4
50°-60°	963.2	15.6
60°-70°	754.1	12.2
70°-80°	486.3	7.9
80°-90°	143.7	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°	1694.7	27.5
0°-40°	2749.3	44.5
0°-60°	4787.2	77.6
0°-90°	6171.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6171.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2211	2211	2211	2211	2211	
5°	2188	2194	2206	2208	2211	208
15°	2082	2093	2111	2128	2131	587
25°	1883	1900	1941	1967	1978	867
35°	1612	1633	1687	1739	1756	1008
45°	1296	1324	1394	1466	1486	1001
55°	965	996	1080	1155	1186	865
65°	634	671	772	846	881	629
75°	322	371	475	556	584	346
85°	78	106	138	138	138	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2211.4	2211.4	2211.4	2211.4	2211.4
2.5°	2197.0	2202.7	2214.2	2217.1	2217.1
5°	2188.3	2194.1	2205.6	2208.5	2211.4
7.5°	2173.9	2176.8	2191.2	2197.0	2199.9
10°	2150.9	2156.7	2171.1	2179.7	2182.6
12.5°	2119.2	2127.9	2145.1	2156.7	2159.5
15°	2081.8	2093.3	2110.6	2127.9	2130.7
17.5°	2041.5	2053.0	2076.0	2096.2	2102.0
20°	1992.5	2006.9	2032.8	2055.9	2064.5
22.5°	1943.6	1955.1	1986.8	2015.6	2024.2
25°	1883.1	1900.4	1940.7	1966.6	1978.1
27.5°	1819.8	1839.9	1880.2	1914.8	1926.3
30°	1753.5	1773.7	1816.9	1860.1	1874.5
32.5°	1684.4	1707.5	1759.3	1802.5	1816.9
35°	1612.5	1632.6	1687.3	1739.1	1756.4
37.5°	1537.6	1554.9	1618.2	1672.9	1690.2
40°	1457.0	1480.0	1546.2	1609.6	1626.9
42.5°	1376.3	1402.3	1468.5	1537.6	1554.9
45°	1295.7	1324.5	1393.6	1465.6	1485.8
47.5°	1218.0	1241.0	1318.8	1387.9	1416.7
50°	1134.5	1157.5	1232.4	1310.1	1338.9
52.5°	1048.1	1079.8	1160.4	1235.3	1269.8
55°	964.6	996.3	1079.8	1154.6	1186.3
57.5°	886.9	912.8	999.1	1076.9	1108.6
60°	803.3	826.4	918.5	1002.0	1030.8
62.5°	714.1	748.6	843.7	921.4	956.0
65°	633.5	670.9	771.7	846.5	881.1
67.5°	558.6	593.2	691.1	771.7	809.1
70°	472.2	518.3	619.1	699.7	734.2
72.5°	403.1	443.4	547.1	627.7	665.1
75°	322.5	371.4	475.1	555.7	584.5
77.5°	256.3	305.2	403.1	466.5	480.9
80°	187.2	236.1	328.3	359.9	368.6
82.5°	126.7	172.8	236.1	244.7	247.6
85°	77.7	106.5	138.2	138.2	138.2
87.5°	37.4	43.2	48.9	46.1	46.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)