

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: P388422

Luminaire Tested: **22CZ2-65VHE-UNV-L950-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: P388422
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: 22CZ2-65VHE-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5802.5 lumens
Efficiency: N/A
Efficacy: 121.1 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

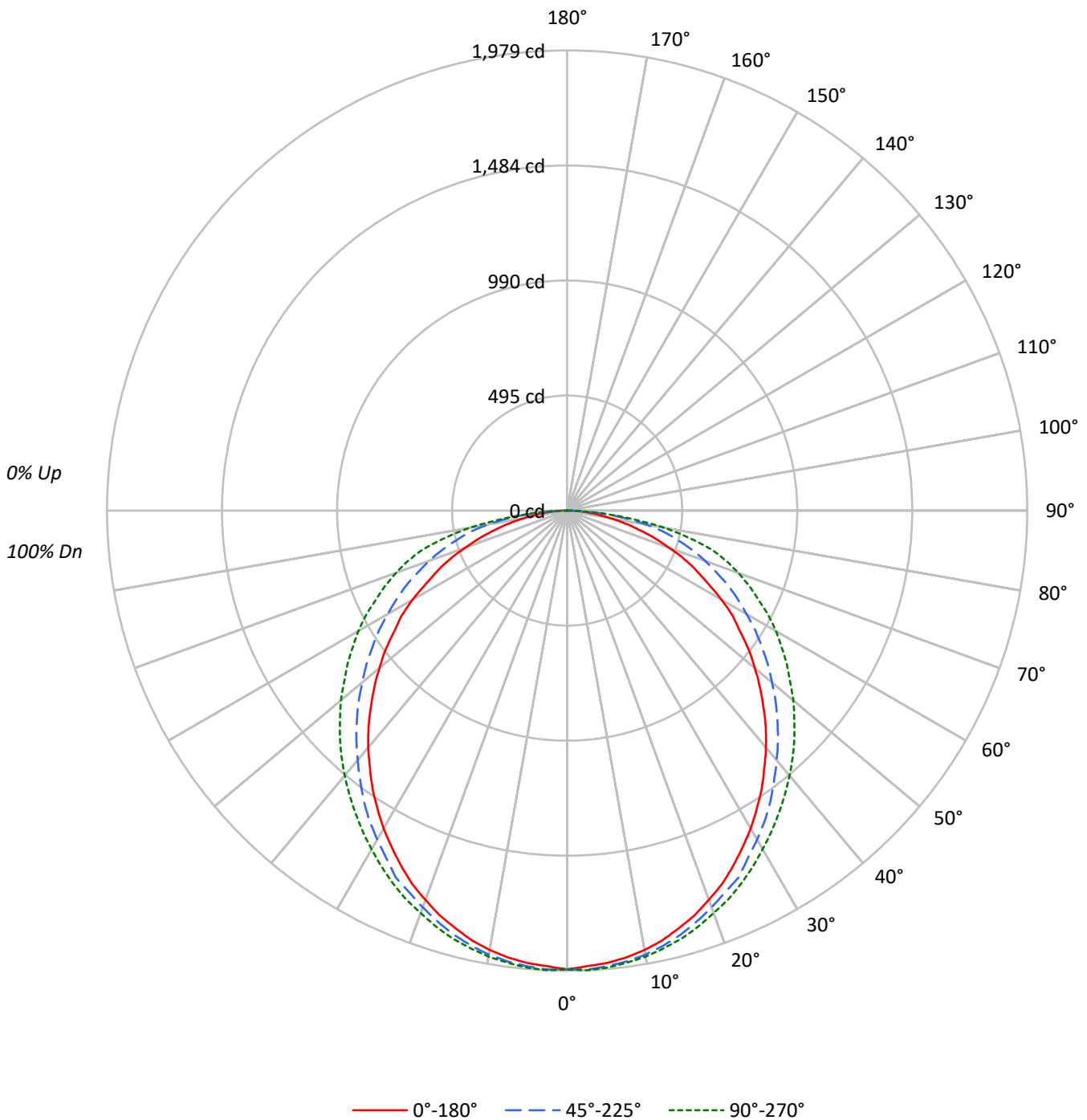
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5309	5309	5309
5°	5276	5314	5330
10°	5243	5297	5321
15°	5178	5258	5305
20°	5102	5200	5274
25°	5010	5171	5256
30°	4906	5075	5226
35°	4793	5009	5215
40°	4674	4925	5226
45°	4542	4868	5259
50°	4411	4817	5319
55°	4260	4796	5412
60°	4134	4794	5578
65°	3927	4872	5782
70°	3662	4965	6155
75°	3354	5136	6650
80°	2920	5354	6549
85°	2556	4761	5203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	3.2
10°-20°	531.5	9.2
20°-30°	797.8	13.7
30°-40°	953.3	16.4
40°-50°	991.3	17.1
50°-60°	918.8	15.8
60°-70°	753.6	13.0
70°-80°	509.5	8.8
80°-90°	160.1	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°	1515.9	26.1
0°-40°	2469.2	42.6
0°-60°	4379.3	75.5
0°-90°	5802.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5802.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1973	1973	1973	1973	1973	
5°	1953	1956	1967	1970	1973	185
15°	1859	1867	1887	1899	1904	524
25°	1687	1702	1742	1762	1770	777
35°	1459	1479	1525	1570	1588	912
45°	1194	1216	1279	1353	1382	922
55°	908	936	1022	1114	1154	816
65°	617	651	765	865	908	610
75°	323	377	494	594	640	342
85°	83	114	154	171	168	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1973.0	1973.0	1973.0	1973.0	1973.0
2.5°	1961.5	1967.2	1975.8	1978.7	1978.7
5°	1953.0	1955.8	1967.2	1970.1	1973.0
7.5°	1938.7	1944.4	1955.8	1958.7	1961.5
10°	1918.7	1924.4	1938.7	1944.4	1947.3
12.5°	1893.0	1898.7	1915.9	1924.4	1927.3
15°	1858.7	1867.3	1887.3	1898.7	1904.4
17.5°	1824.5	1833.1	1853.0	1870.2	1875.9
20°	1781.7	1801.6	1815.9	1838.8	1841.6
22.5°	1738.8	1750.2	1775.9	1798.8	1810.2
25°	1687.4	1701.7	1741.7	1761.7	1770.2
27.5°	1633.2	1653.2	1684.6	1716.0	1727.4
30°	1578.9	1593.2	1633.2	1670.3	1681.7
32.5°	1519.0	1539.0	1581.8	1618.9	1636.0
35°	1459.0	1479.0	1524.7	1570.4	1587.5
37.5°	1393.3	1416.2	1461.9	1516.1	1539.0
40°	1330.5	1347.7	1401.9	1467.6	1487.6
42.5°	1264.9	1284.8	1342.0	1413.3	1436.2
45°	1193.5	1216.3	1279.1	1353.4	1381.9
47.5°	1125.0	1147.8	1216.3	1290.6	1324.8
50°	1053.6	1082.1	1150.7	1236.3	1270.6
52.5°	985.1	1010.7	1087.8	1176.4	1207.8
55°	908.0	936.5	1022.2	1113.5	1153.5
57.5°	845.1	865.1	959.4	1053.6	1093.5
60°	768.1	793.8	890.8	990.8	1036.4
62.5°	685.3	728.1	828.0	930.8	976.5
65°	616.7	651.0	765.2	865.1	908.0
67.5°	545.3	582.5	693.8	799.5	848.0
70°	465.4	513.9	631.0	736.6	782.3
72.5°	394.0	445.4	565.3	668.1	716.7
75°	322.6	376.9	494.0	593.9	639.6
77.5°	254.1	314.1	428.3	505.4	533.9
80°	188.4	245.5	345.5	399.7	422.6
82.5°	131.3	179.9	254.1	282.7	288.4
85°	82.8	114.2	154.2	171.3	168.5
87.5°	37.1	45.7	57.1	62.8	60.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)