

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: P389308

Luminaire Tested: **22CZ2-55VHE-S-UNV-L940-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: P389308
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: 22CZ2-55VHE-S-UNV-L940-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4902.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

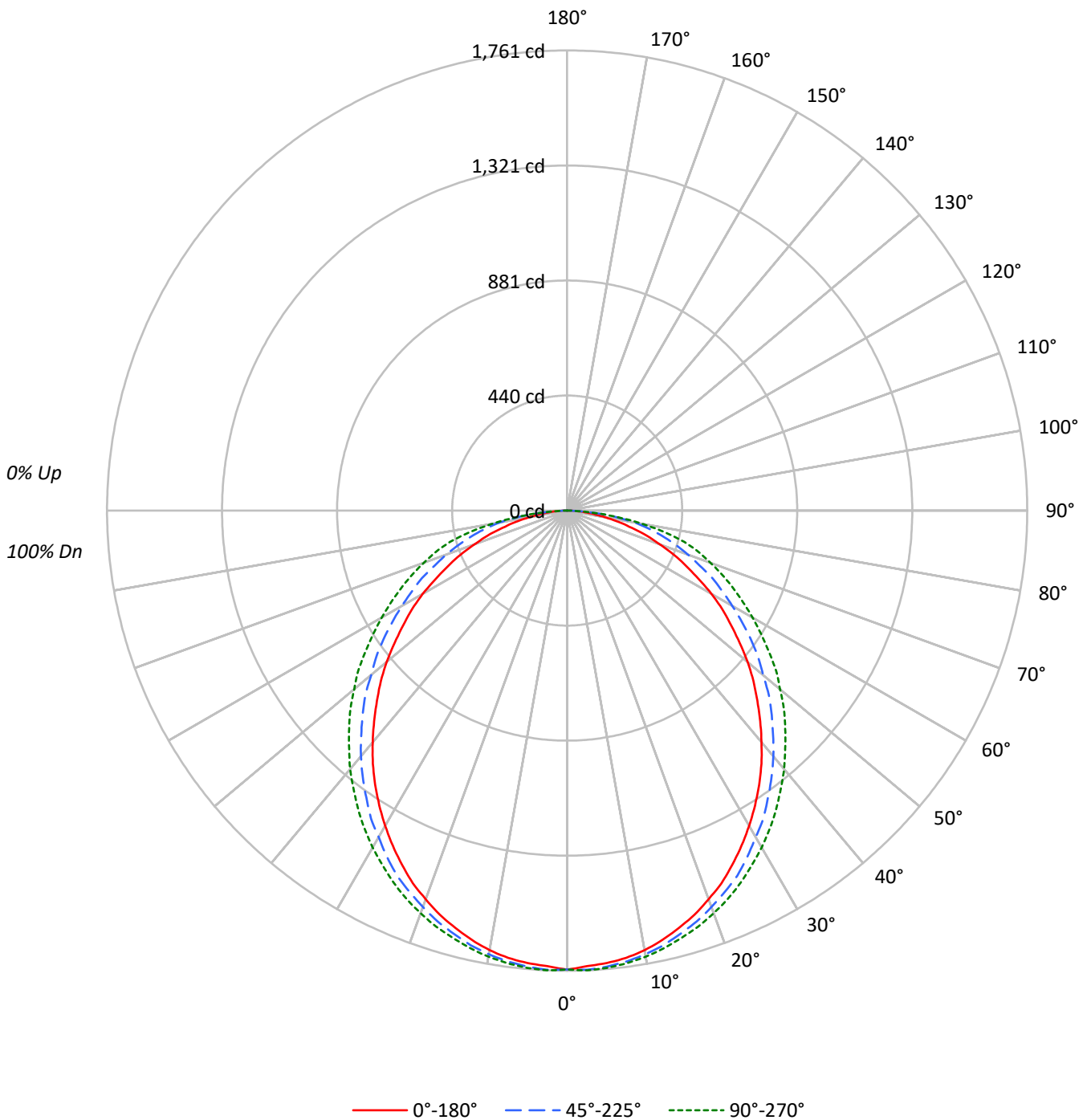
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4727	4727	4727
5°	4695	4733	4745
10°	4668	4712	4737
15°	4607	4671	4715
20°	4532	4624	4696
25°	4441	4577	4665
30°	4328	4484	4626
35°	4208	4403	4583
40°	4065	4314	4539
45°	3917	4213	4491
50°	3772	4098	4452
55°	3595	4024	4421
60°	3434	3927	4407
65°	3204	3903	4457
70°	2951	3869	4589
75°	2664	3924	4827
80°	2304	4040	4537
85°	1908	3390	3390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.4
10°-20°	472.7	9.6
20°-30°	707.3	14.4
30°-40°	837.6	17.1
40°-50°	853.7	17.4
50°-60°	765.1	15.6
60°-70°	599.0	12.2
70°-80°	386.3	7.9
80°-90°	114.1	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°	1346.2	27.5
0°-40°	2183.8	44.5
0°-60°	3802.6	77.6
0°-90°	4902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1738	1743	1752	1754	1756	165
15°	1654	1663	1676	1690	1692	466
25°	1496	1510	1542	1562	1571	689
35°	1281	1297	1340	1381	1395	800
45°	1029	1052	1107	1164	1180	795
55°	766	791	858	917	942	687
65°	503	533	613	672	700	500
75°	256	295	377	441	464	275
85°	62	85	110	110	110	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.5	1756.5	1756.5	1756.5	1756.5
2.5°	1745.1	1749.7	1758.8	1761.1	1761.1
5°	1738.2	1742.8	1752.0	1754.3	1756.5
7.5°	1726.8	1729.1	1740.5	1745.1	1747.4
10°	1708.5	1713.1	1724.5	1731.4	1733.7
12.5°	1683.4	1690.2	1703.9	1713.1	1715.4
15°	1653.6	1662.8	1676.5	1690.2	1692.5
17.5°	1621.6	1630.7	1649.0	1665.1	1669.6
20°	1582.7	1594.2	1614.7	1633.0	1639.9
22.5°	1543.8	1553.0	1578.1	1601.0	1607.9
25°	1495.8	1509.5	1541.5	1562.1	1571.3
27.5°	1445.5	1461.5	1493.5	1521.0	1530.1
30°	1392.9	1408.9	1443.2	1477.5	1488.9
32.5°	1338.0	1356.3	1397.5	1431.8	1443.2
35°	1280.8	1296.8	1340.3	1381.4	1395.2
37.5°	1221.3	1235.1	1285.4	1328.8	1342.6
40°	1157.3	1175.6	1228.2	1278.5	1292.2
42.5°	1093.3	1113.8	1166.5	1221.3	1235.1
45°	1029.2	1052.1	1107.0	1164.2	1180.2
47.5°	967.5	985.8	1047.5	1102.4	1125.3
50°	901.1	919.4	978.9	1040.7	1063.5
52.5°	832.5	857.7	921.7	981.2	1008.6
55°	766.2	791.4	857.7	917.2	942.3
57.5°	704.4	725.0	793.6	855.4	880.6
60°	638.1	656.4	729.6	795.9	818.8
62.5°	567.2	594.7	670.1	731.9	759.3
65°	503.2	532.9	613.0	672.4	699.9
67.5°	443.7	471.2	548.9	613.0	642.7
70°	375.1	411.7	491.7	555.8	583.2
72.5°	320.2	352.2	434.6	498.6	528.3
75°	256.2	295.0	377.4	441.4	464.3
77.5°	203.6	242.4	320.2	370.5	382.0
80°	148.7	187.5	260.7	285.9	292.8
82.5°	100.6	137.2	187.5	194.4	196.7
85°	61.8	84.6	109.8	109.8	109.8
87.5°	29.7	34.3	38.9	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)