

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: P388374

Luminaire Tested: **22CZ2-55VHE-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: P388374
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: 22CZ2-55VHE-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: 4892.2 lumens
Efficiency: N/A
Efficacy: 124.2 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

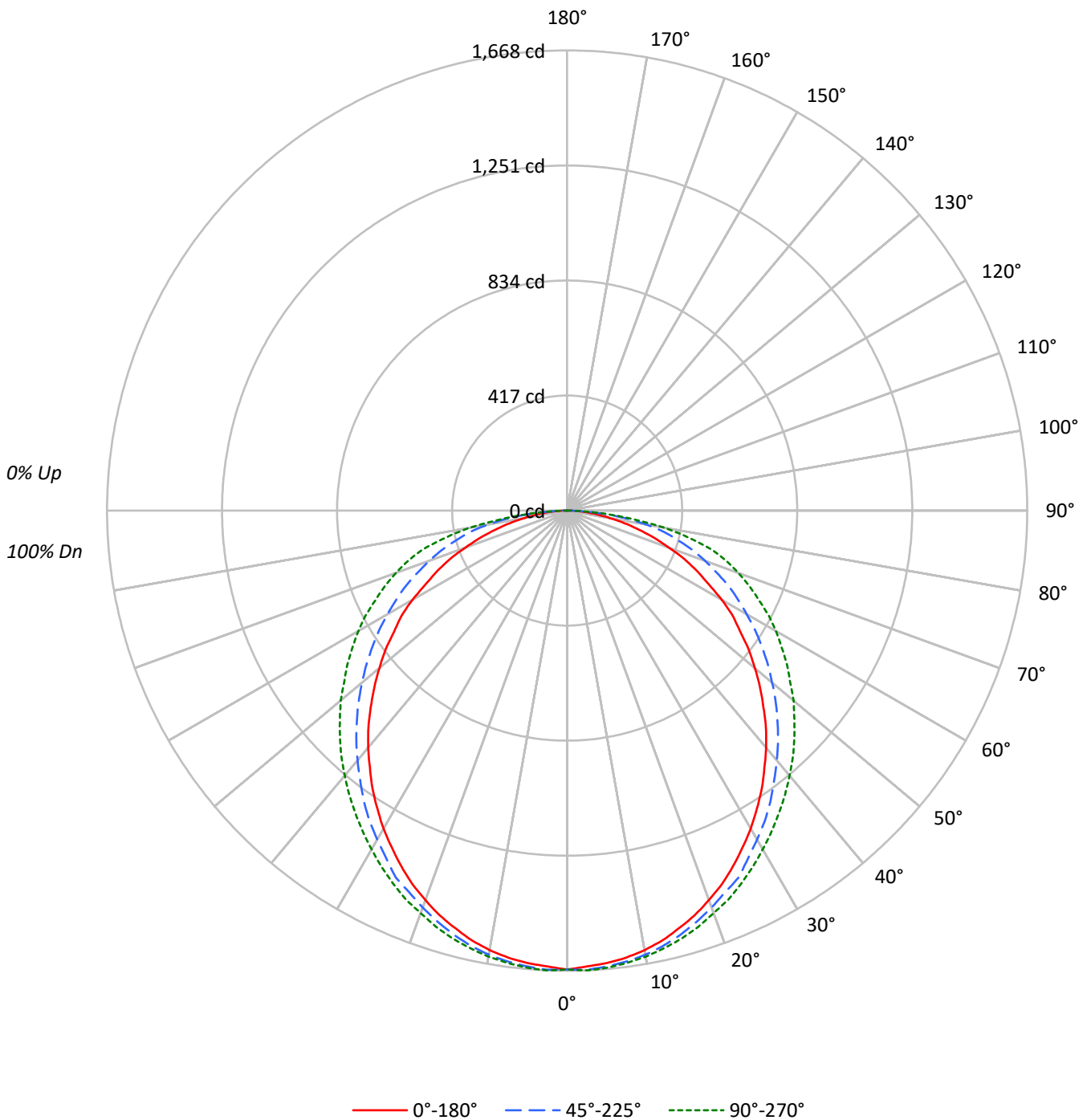
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4476	4476	4476
5°	4448	4480	4493
10°	4420	4467	4486
15°	4366	4433	4473
20°	4302	4384	4446
25°	4224	4360	4431
30°	4136	4279	4406
35°	4041	4223	4397
40°	3941	4152	4406
45°	3829	4104	4434
50°	3719	4061	4484
55°	3591	4043	4563
60°	3485	4042	4703
65°	3311	4108	4874
70°	3087	4186	5190
75°	2828	4330	5606
80°	2462	4514	5521
85°	2155	4014	4384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	3.2
10°-20°	448.1	9.2
20°-30°	672.7	13.7
30°-40°	803.8	16.4
40°-50°	835.8	17.1
50°-60°	774.7	15.8
60°-70°	635.4	13.0
70°-80°	429.5	8.8
80°-90°	135.0	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°	1278.1	26.1
0°-40°	2081.8	42.6
0°-60°	3692.3	75.5
0°-90°	4892.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4892.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1647	1649	1659	1661	1663	156
15°	1567	1574	1591	1601	1606	442
25°	1423	1435	1468	1485	1492	655
35°	1230	1247	1286	1324	1338	769
45°	1006	1026	1078	1141	1165	777
55°	766	790	862	939	972	688
65°	520	549	645	729	766	514
75°	272	318	416	501	539	288
85°	70	96	130	144	142	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1663.4	1663.4	1663.4	1663.4	1663.4
2.5°	1653.8	1658.6	1665.8	1668.3	1668.3
5°	1646.6	1649.0	1658.6	1661.0	1663.4
7.5°	1634.6	1639.4	1649.0	1651.4	1653.8
10°	1617.7	1622.5	1634.6	1639.4	1641.8
12.5°	1596.0	1600.8	1615.3	1622.5	1624.9
15°	1567.1	1574.4	1591.2	1600.8	1605.7
17.5°	1538.3	1545.5	1562.3	1576.8	1581.6
20°	1502.1	1519.0	1531.0	1550.3	1552.7
22.5°	1466.0	1475.7	1497.3	1516.6	1526.2
25°	1422.7	1434.7	1468.4	1485.3	1492.5
27.5°	1377.0	1393.8	1420.3	1446.8	1456.4
30°	1331.2	1343.3	1377.0	1408.3	1417.9
32.5°	1280.7	1297.5	1333.6	1364.9	1379.4
35°	1230.1	1247.0	1285.5	1324.0	1338.5
37.5°	1174.8	1194.0	1232.5	1278.3	1297.5
40°	1121.8	1136.2	1182.0	1237.3	1254.2
42.5°	1066.4	1083.3	1131.4	1191.6	1210.9
45°	1006.2	1025.5	1078.5	1141.1	1165.1
47.5°	948.5	967.7	1025.5	1088.1	1117.0
50°	888.3	912.4	970.1	1042.4	1071.2
52.5°	830.5	852.2	917.2	991.8	1018.3
55°	765.5	789.6	861.8	938.8	972.5
57.5°	712.6	729.4	808.8	888.3	922.0
60°	647.6	669.2	751.1	835.3	873.8
62.5°	577.7	613.9	698.1	784.8	823.3
65°	520.0	548.9	645.2	729.4	765.5
67.5°	459.8	491.1	585.0	674.0	715.0
70°	392.4	433.3	532.0	621.1	659.6
72.5°	332.2	375.5	476.6	563.3	604.2
75°	272.0	317.8	416.5	500.7	539.2
77.5°	214.2	264.8	361.1	426.1	450.2
80°	158.9	207.0	291.3	337.0	356.3
82.5°	110.7	151.7	214.2	238.3	243.1
85°	69.8	96.3	130.0	144.4	142.0
87.5°	31.3	38.5	48.1	53.0	50.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)