

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: P389304

Luminaire Tested: **22CZ2-55VHE-S-UNV-L935-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: P389304
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-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4793.3 lumens
Efficiency: N/A
Efficacy: 121.7 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

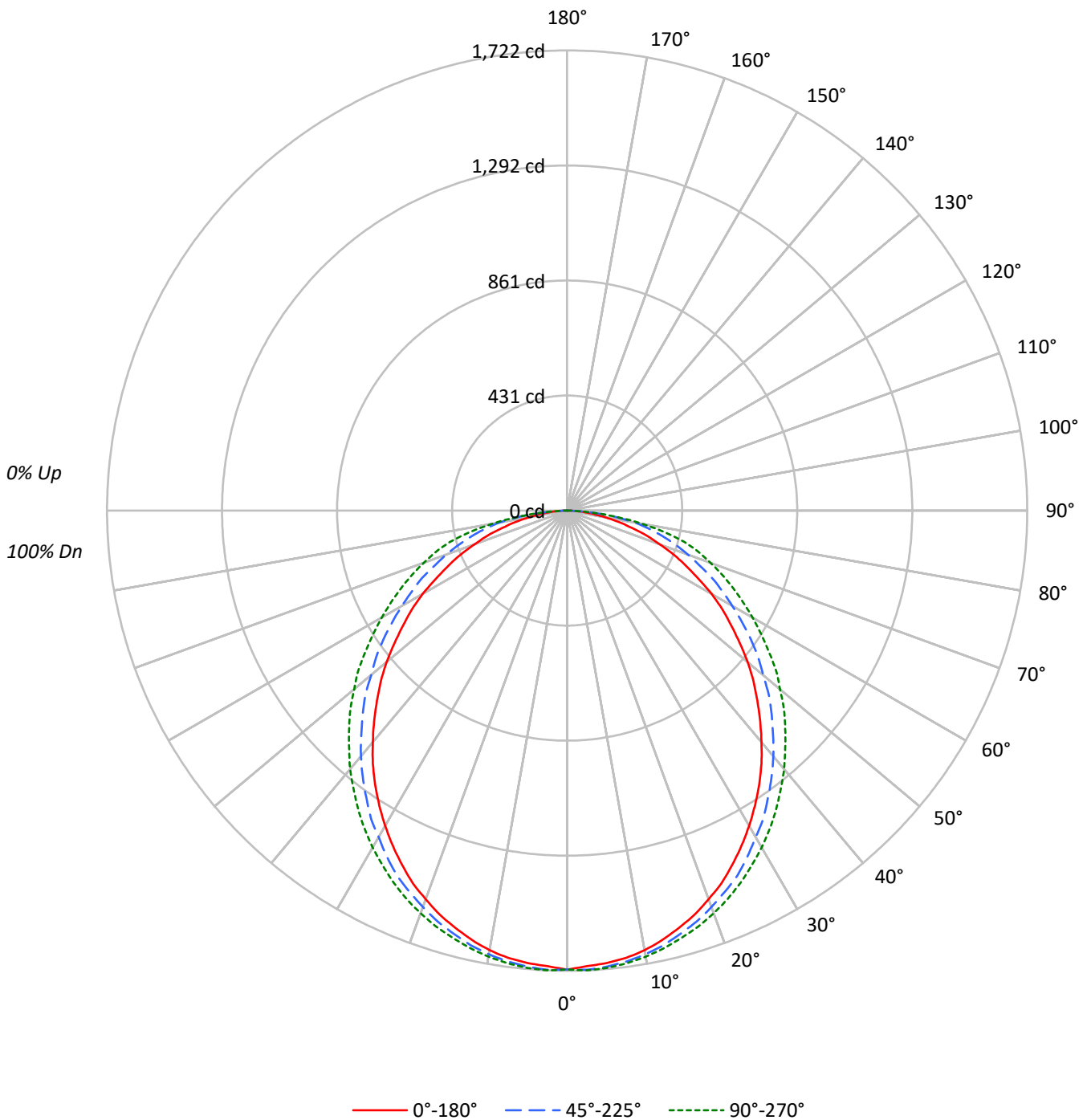
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4622	4622	4622
5°	4591	4628	4640
10°	4565	4608	4632
15°	4505	4567	4611
20°	4432	4521	4592
25°	4343	4476	4562
30°	4232	4385	4524
35°	4114	4305	4482
40°	3975	4219	4439
45°	3830	4119	4392
50°	3689	4007	4353
55°	3515	3935	4323
60°	3358	3839	4309
65°	3133	3817	4358
70°	2886	3783	4487
75°	2604	3837	4720
80°	2253	3952	4437
85°	1865	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	3.4
10°-20°	462.2	9.6
20°-30°	691.6	14.4
30°-40°	819.1	17.1
40°-50°	834.7	17.4
50°-60°	748.2	15.6
60°-70°	585.8	12.2
70°-80°	377.7	7.9
80°-90°	111.6	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°	1316.3	27.5
0°-40°	2135.4	44.5
0°-60°	3718.3	77.6
0°-90°	4793.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4793.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1700	1704	1713	1715	1718	161
15°	1617	1626	1639	1653	1655	456
25°	1463	1476	1507	1528	1536	673
35°	1252	1268	1311	1351	1364	783
45°	1006	1029	1082	1138	1154	777
55°	749	774	839	897	921	672
65°	492	521	599	658	684	489
75°	250	288	369	432	454	269
85°	60	83	107	107	107	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1717.6	1717.6	1717.6	1717.6	1717.6
2.5°	1706.4	1710.9	1719.8	1722.1	1722.1
5°	1699.7	1704.2	1713.1	1715.4	1717.6
7.5°	1688.5	1690.8	1701.9	1706.4	1708.6
10°	1670.6	1675.1	1686.3	1693.0	1695.2
12.5°	1646.0	1652.7	1666.2	1675.1	1677.3
15°	1616.9	1625.9	1639.3	1652.7	1655.0
17.5°	1585.6	1594.6	1612.5	1628.1	1632.6
20°	1547.6	1558.8	1578.9	1596.8	1603.5
22.5°	1509.6	1518.5	1543.1	1565.5	1572.2
25°	1462.6	1476.1	1507.4	1527.5	1536.4
27.5°	1413.4	1429.1	1460.4	1487.2	1496.2
30°	1362.0	1377.6	1411.2	1444.7	1455.9
32.5°	1308.3	1326.2	1366.5	1400.0	1411.2
35°	1252.4	1268.1	1310.6	1350.8	1364.2
37.5°	1194.3	1207.7	1256.9	1299.4	1312.8
40°	1131.6	1149.5	1201.0	1250.2	1263.6
42.5°	1069.0	1089.1	1140.6	1194.3	1207.7
45°	1006.4	1028.8	1082.4	1138.3	1154.0
47.5°	946.0	963.9	1024.3	1078.0	1100.3
50°	881.2	899.1	957.2	1017.6	1039.9
52.5°	814.1	838.7	901.3	959.4	986.3
55°	749.2	773.8	838.7	896.8	921.4
57.5°	688.8	709.0	776.0	836.4	861.0
60°	624.0	641.9	713.4	778.3	800.6
62.5°	554.6	581.5	655.3	715.7	742.5
65°	492.0	521.1	599.4	657.5	684.4
67.5°	433.9	460.7	536.7	599.4	628.4
70°	366.8	402.6	480.8	543.5	570.3
72.5°	313.1	344.4	424.9	487.5	516.6
75°	250.5	288.5	369.0	431.6	454.0
77.5°	199.0	237.1	313.1	362.3	373.5
80°	145.4	183.4	255.0	279.6	286.3
82.5°	98.4	134.2	183.4	190.1	192.3
85°	60.4	82.7	107.3	107.3	107.3
87.5°	29.1	33.5	38.0	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)