

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: P388081

Luminaire Tested: **22CZ2-55VHE-SQR-UNV-L930-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: P388081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-SQR-UNV-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4327.5 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

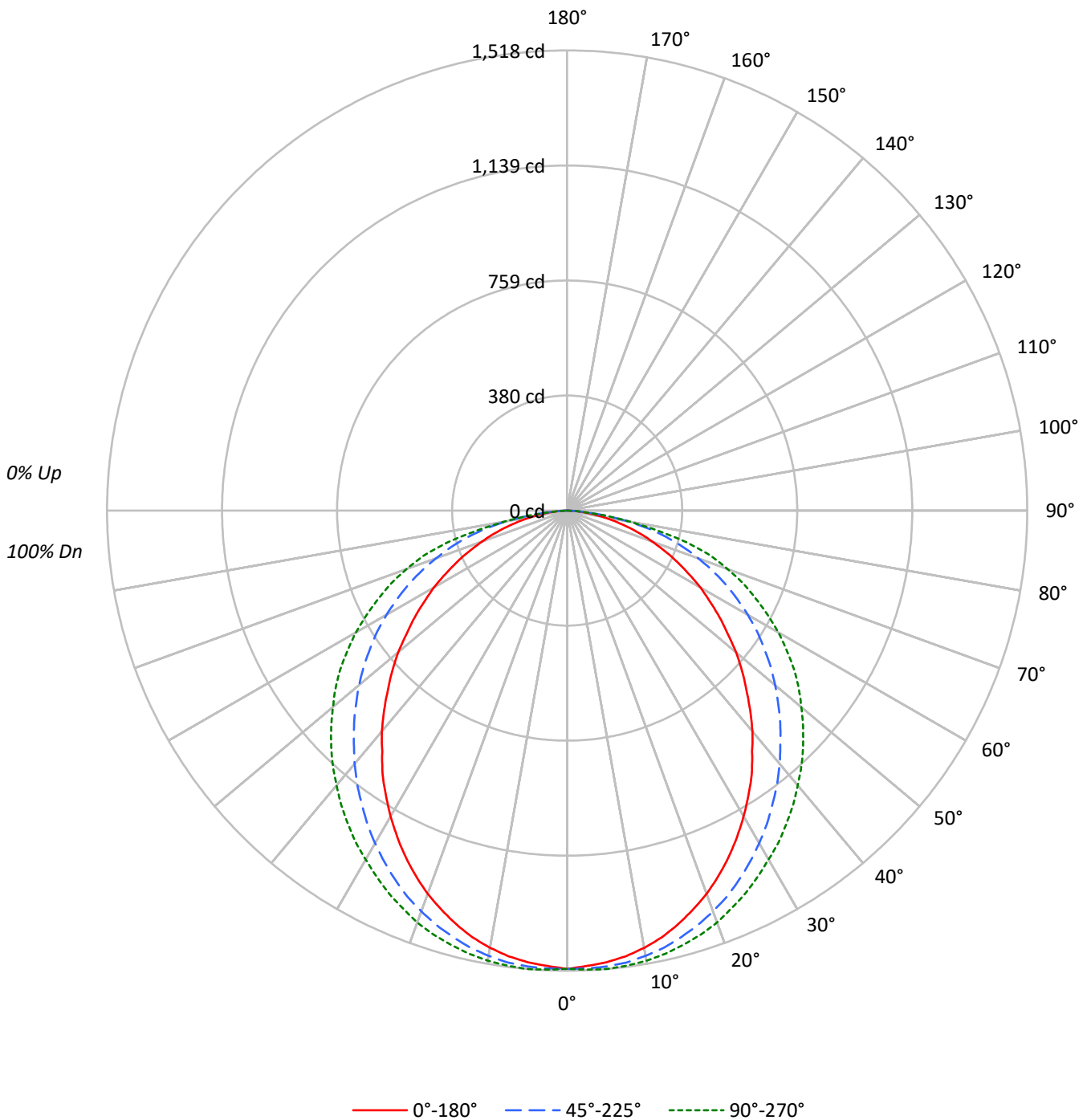
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	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	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4068	4068	4068
5°	4039	4078	4100
10°	4002	4075	4120
15°	3937	4057	4131
20°	3853	4029	4141
25°	3744	3988	4135
30°	3619	3938	4129
35°	3488	3880	4143
40°	3341	3831	4156
45°	3181	3783	4190
50°	3044	3749	4222
55°	2881	3719	4288
60°	2730	3703	4333
65°	2550	3675	4368
70°	2343	3620	4428
75°	2114	3524	4271
80°	1815	3119	3214
85°	1457	1840	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	3.3
10°-20°	409.7	9.5
20°-30°	615.4	14.2
30°-40°	734.0	17.0
40°-50°	758.9	17.5
50°-60°	697.7	16.1
60°-70°	555.4	12.8
70°-80°	339.3	7.8
80°-90°	73.8	1.7
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°	1168.5	27.0
0°-40°	1902.4	44.0
0°-60°	3359.0	77.6
0°-90°	4327.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4327.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1495	1499	1510	1516	1518	142
15°	1413	1430	1456	1477	1483	398
25°	1261	1292	1343	1380	1393	580
35°	1062	1107	1181	1243	1261	662
45°	836	896	994	1074	1101	646
55°	614	682	793	883	914	549
65°	400	468	577	657	686	397
75°	203	263	339	398	411	217
85°	47	58	60	51	47	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.7	1511.7	1511.7	1511.7	1511.7
2.5°	1503.5	1505.5	1511.7	1515.8	1515.8
5°	1495.3	1499.4	1509.6	1515.8	1517.9
7.5°	1482.9	1489.1	1503.5	1511.7	1513.8
10°	1464.5	1472.7	1491.2	1503.5	1507.6
12.5°	1441.9	1454.2	1476.8	1493.2	1497.3
15°	1413.1	1429.5	1456.2	1476.8	1482.9
17.5°	1380.2	1400.8	1433.7	1458.3	1466.5
20°	1345.3	1365.9	1406.9	1435.7	1446.0
22.5°	1304.3	1331.0	1378.2	1411.1	1419.3
25°	1261.1	1291.9	1343.3	1380.2	1392.6
27.5°	1213.9	1250.8	1306.3	1351.5	1361.8
30°	1164.6	1203.6	1267.3	1316.6	1328.9
32.5°	1113.2	1158.4	1226.2	1281.7	1298.1
35°	1061.9	1107.1	1181.0	1242.6	1261.1
37.5°	1002.3	1055.7	1137.9	1201.6	1224.1
40°	951.0	1002.3	1090.6	1160.5	1183.1
42.5°	893.5	948.9	1041.3	1117.3	1144.0
45°	836.0	895.5	994.1	1074.2	1100.9
47.5°	782.6	842.1	944.8	1029.0	1055.7
50°	727.1	788.7	895.5	981.8	1008.5
52.5°	667.5	735.3	846.2	932.5	963.3
55°	614.1	681.9	792.8	883.2	914.0
57.5°	558.7	628.5	743.5	829.8	858.5
60°	507.3	575.1	688.1	772.3	805.1
62.5°	451.9	521.7	632.6	714.8	745.6
65°	400.5	468.3	577.2	657.3	686.0
67.5°	349.2	416.9	519.6	595.6	628.5
70°	297.8	365.6	460.1	534.0	562.8
72.5°	252.6	312.2	402.6	470.4	497.1
75°	203.3	262.9	338.9	398.5	410.8
77.5°	158.2	211.6	275.2	301.9	306.0
80°	117.1	158.2	201.3	207.4	207.4
82.5°	78.0	108.9	125.3	127.3	125.3
85°	47.2	57.5	59.6	51.3	47.2
87.5°	16.4	16.4	10.3	6.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)