

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: P388371

Luminaire Tested: **22CZ2-55VHE-UNV-L940-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: P388371
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-L940-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4609.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

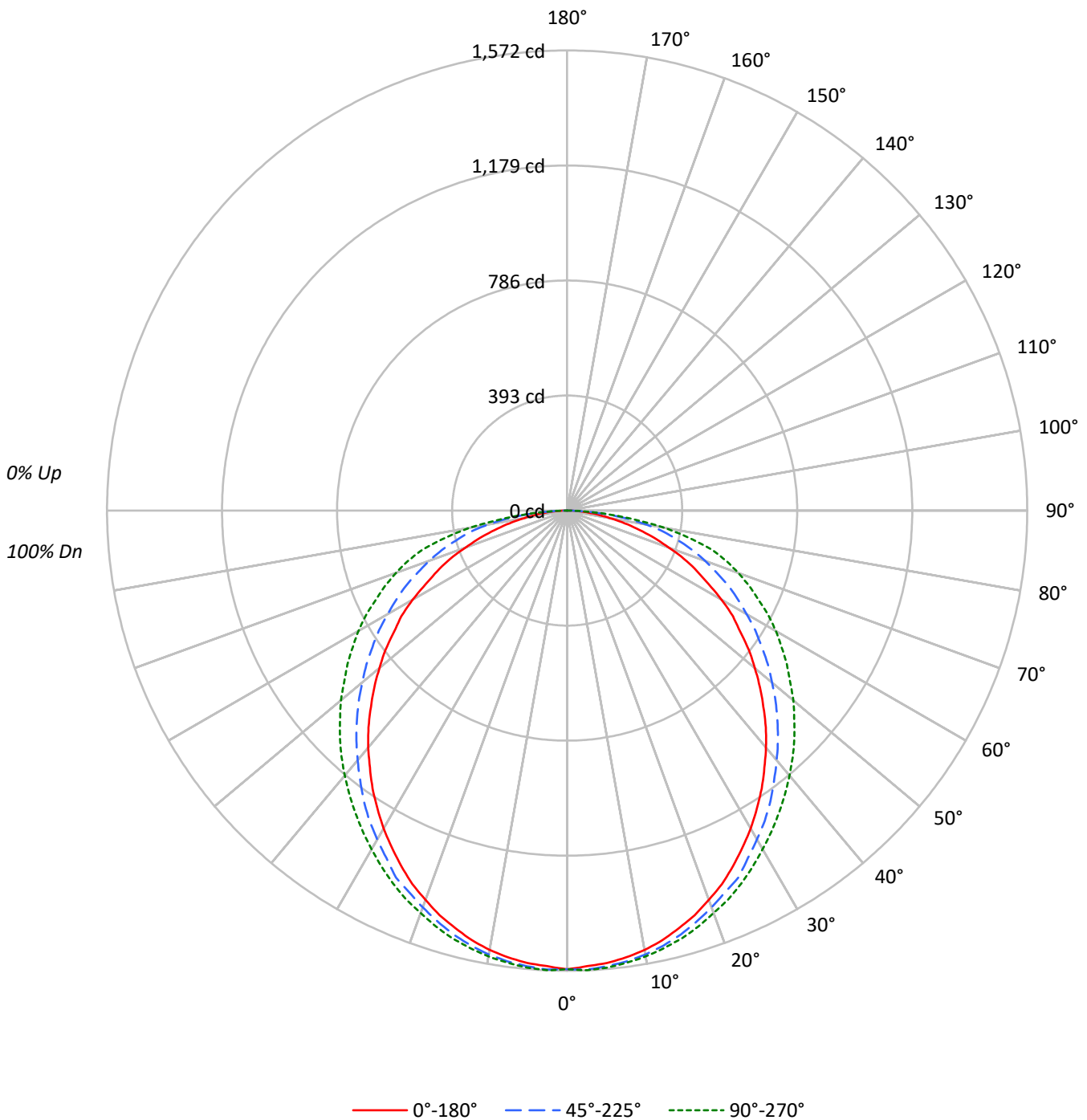
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4217	4217	4217
5°	4190	4221	4233
10°	4165	4208	4226
15°	4113	4176	4214
20°	4053	4131	4189
25°	3980	4108	4175
30°	3897	4031	4151
35°	3807	3979	4142
40°	3713	3912	4151
45°	3608	3867	4177
50°	3504	3826	4225
55°	3384	3809	4298
60°	3284	3808	4431
65°	3119	3870	4592
70°	2909	3943	4889
75°	2665	4080	5282
80°	2320	4252	5202
85°	2032	3782	4131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.2
10°-20°	422.1	9.2
20°-30°	633.7	13.7
30°-40°	757.2	16.4
40°-50°	787.4	17.1
50°-60°	729.8	15.8
60°-70°	598.6	13.0
70°-80°	404.7	8.8
80°-90°	127.2	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°	1204.1	26.1
0°-40°	1961.3	42.6
0°-60°	3478.5	75.5
0°-90°	4609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1551	1554	1563	1565	1567	147
15°	1476	1483	1499	1508	1513	416
25°	1340	1352	1383	1399	1406	617
35°	1159	1175	1211	1247	1261	724
45°	948	966	1016	1075	1098	732
55°	721	744	812	884	916	648
65°	490	517	608	687	721	484
75°	256	299	392	472	508	272
85°	66	91	122	136	134	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.1	1567.1	1567.1	1567.1	1567.1
2.5°	1558.1	1562.6	1569.4	1571.7	1571.7
5°	1551.3	1553.5	1562.6	1564.9	1567.1
7.5°	1539.9	1544.5	1553.5	1555.8	1558.1
10°	1524.1	1528.6	1539.9	1544.5	1546.7
12.5°	1503.6	1508.2	1521.8	1528.6	1530.9
15°	1476.4	1483.2	1499.1	1508.2	1512.7
17.5°	1449.2	1456.0	1471.9	1485.5	1490.0
20°	1415.2	1431.1	1442.4	1460.6	1462.8
22.5°	1381.2	1390.2	1410.7	1428.8	1437.9
25°	1340.4	1351.7	1383.4	1399.3	1406.1
27.5°	1297.3	1313.1	1338.1	1363.0	1372.1
30°	1254.2	1265.5	1297.3	1326.7	1335.8
32.5°	1206.5	1222.4	1256.4	1285.9	1299.5
35°	1158.9	1174.8	1211.1	1247.4	1261.0
37.5°	1106.8	1124.9	1161.2	1204.3	1222.4
40°	1056.9	1070.5	1113.6	1165.7	1181.6
42.5°	1004.7	1020.6	1065.9	1122.6	1140.8
45°	948.0	966.1	1016.0	1075.0	1097.7
47.5°	893.6	911.7	966.1	1025.1	1052.3
50°	836.9	859.5	914.0	982.0	1009.2
52.5°	782.4	802.8	864.1	934.4	959.3
55°	721.2	743.9	811.9	884.5	916.2
57.5°	671.3	687.2	762.0	836.9	868.6
60°	610.1	630.5	707.6	787.0	823.3
62.5°	544.3	578.3	657.7	739.3	775.6
65°	489.9	517.1	607.8	687.2	721.2
67.5°	433.2	462.7	551.1	635.0	673.6
70°	369.7	408.2	501.2	585.1	621.4
72.5°	313.0	353.8	449.1	530.7	569.3
75°	256.3	299.4	392.4	471.7	508.0
77.5°	201.8	249.5	340.2	401.4	424.1
80°	149.7	195.0	274.4	317.5	335.7
82.5°	104.3	142.9	201.8	224.5	229.1
85°	65.8	90.7	122.5	136.1	133.8
87.5°	29.5	36.3	45.4	49.9	47.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)