

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: P389307

Luminaire Tested: **22CZ2-55VHE-S-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: P389307
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-SDWPD1-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: 4842.8 lumens
Efficiency: N/A
Efficacy: 122.9 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

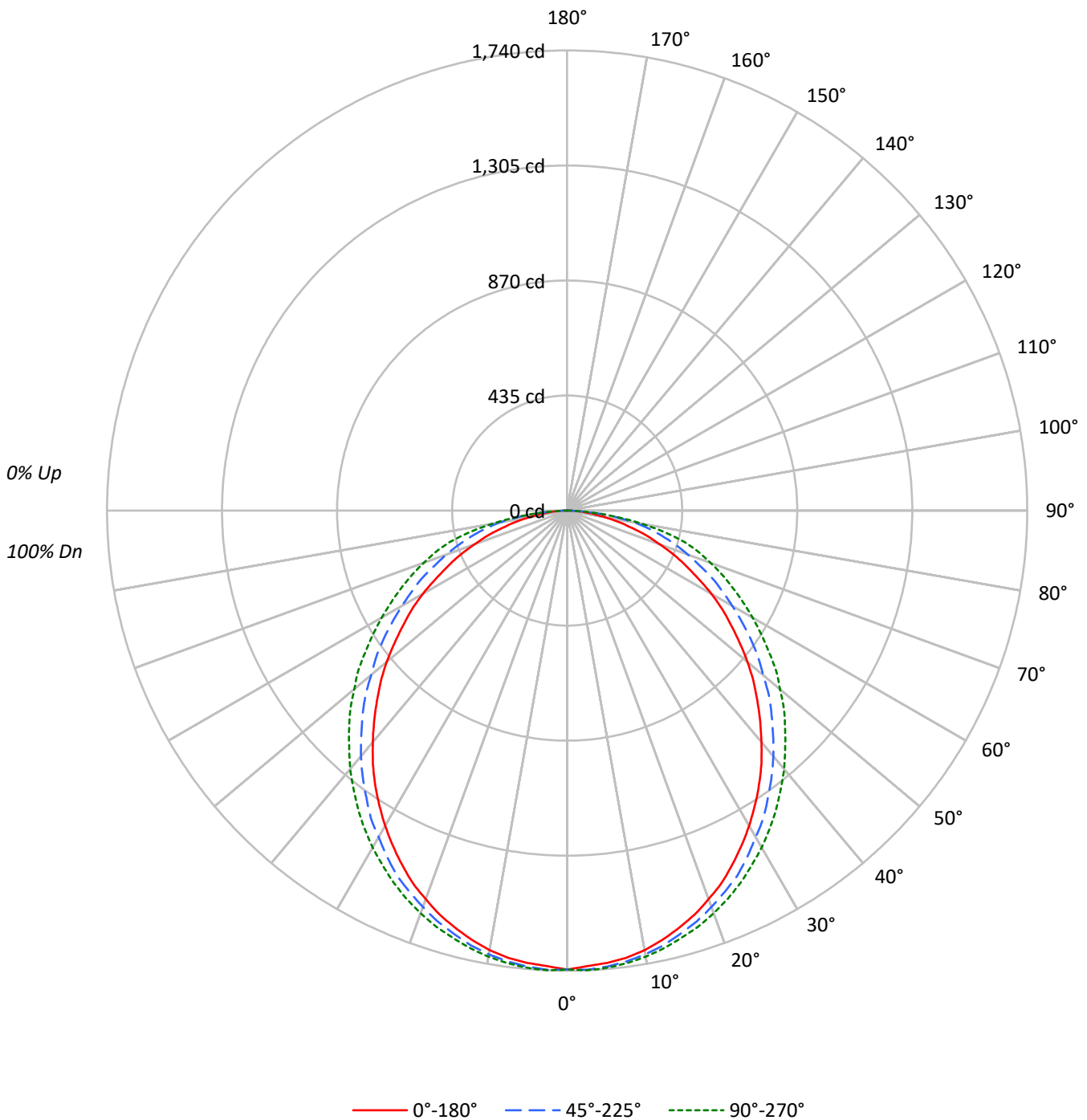
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4670	4670	4670
5°	4639	4675	4687
10°	4612	4655	4680
15°	4551	4614	4658
20°	4478	4568	4639
25°	4388	4522	4609
30°	4276	4430	4571
35°	4157	4350	4528
40°	4016	4262	4484
45°	3870	4162	4437
50°	3727	4049	4399
55°	3551	3975	4367
60°	3393	3879	4353
65°	3165	3856	4402
70°	2916	3822	4533
75°	2632	3876	4769
80°	2276	3992	4482
85°	1883	3350	3350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.4
10°-20°	467.0	9.6
20°-30°	698.8	14.4
30°-40°	827.5	17.1
40°-50°	843.4	17.4
50°-60°	755.9	15.6
60°-70°	591.8	12.2
70°-80°	381.6	7.9
80°-90°	112.7	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°	1329.9	27.5
0°-40°	2157.4	44.5
0°-60°	3756.7	77.6
0°-90°	4842.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4842.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1717	1722	1731	1733	1735	163
15°	1634	1643	1656	1670	1672	461
25°	1478	1491	1523	1543	1552	680
35°	1265	1281	1324	1365	1378	791
45°	1017	1039	1094	1150	1166	785
55°	757	782	847	906	931	679
65°	497	526	606	664	691	494
75°	253	292	373	436	459	271
85°	61	84	108	108	108	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.3	1735.3	1735.3	1735.3	1735.3
2.5°	1724.0	1728.5	1737.6	1739.8	1739.8
5°	1717.2	1721.8	1730.8	1733.1	1735.3
7.5°	1706.0	1708.2	1719.5	1724.0	1726.3
10°	1687.9	1692.4	1703.7	1710.5	1712.7
12.5°	1663.0	1669.8	1683.4	1692.4	1694.7
15°	1633.6	1642.7	1656.2	1669.8	1672.1
17.5°	1602.0	1611.1	1629.1	1644.9	1649.5
20°	1563.6	1574.9	1595.2	1613.3	1620.1
22.5°	1525.2	1534.2	1559.1	1581.7	1588.5
25°	1477.7	1491.3	1522.9	1543.3	1552.3
27.5°	1428.0	1443.8	1475.5	1502.6	1511.6
30°	1376.1	1391.9	1425.8	1459.7	1471.0
32.5°	1321.8	1339.9	1380.6	1414.5	1425.8
35°	1265.3	1281.2	1324.1	1364.8	1378.3
37.5°	1206.6	1220.2	1269.9	1312.8	1326.3
40°	1143.3	1161.4	1213.4	1263.1	1276.6
42.5°	1080.1	1100.4	1152.4	1206.6	1220.2
45°	1016.8	1039.4	1093.6	1150.1	1165.9
47.5°	955.8	973.9	1034.9	1089.1	1111.7
50°	890.3	908.3	967.1	1028.1	1050.7
52.5°	822.5	847.3	910.6	969.3	996.5
55°	756.9	781.8	847.3	906.1	930.9
57.5°	695.9	716.3	784.1	845.1	869.9
60°	630.4	648.5	720.8	786.3	808.9
62.5°	560.4	587.5	662.0	723.1	750.2
65°	497.1	526.5	605.6	664.3	691.4
67.5°	438.4	465.5	542.3	605.6	634.9
70°	370.6	406.7	485.8	549.1	576.2
72.5°	316.3	348.0	429.3	492.6	522.0
75°	253.1	291.5	372.8	436.1	458.7
77.5°	201.1	239.5	316.3	366.0	377.3
80°	146.9	185.3	257.6	282.4	289.2
82.5°	99.4	135.6	185.3	192.1	194.3
85°	61.0	83.6	108.5	108.5	108.5
87.5°	29.4	33.9	38.4	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)