

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: P388350

Luminaire Tested: **22CZ2-50VHE-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: P388350
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: 22CZ2-50VHE-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: 4507.3 lumens
Efficiency: N/A
Efficacy: 124.5 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

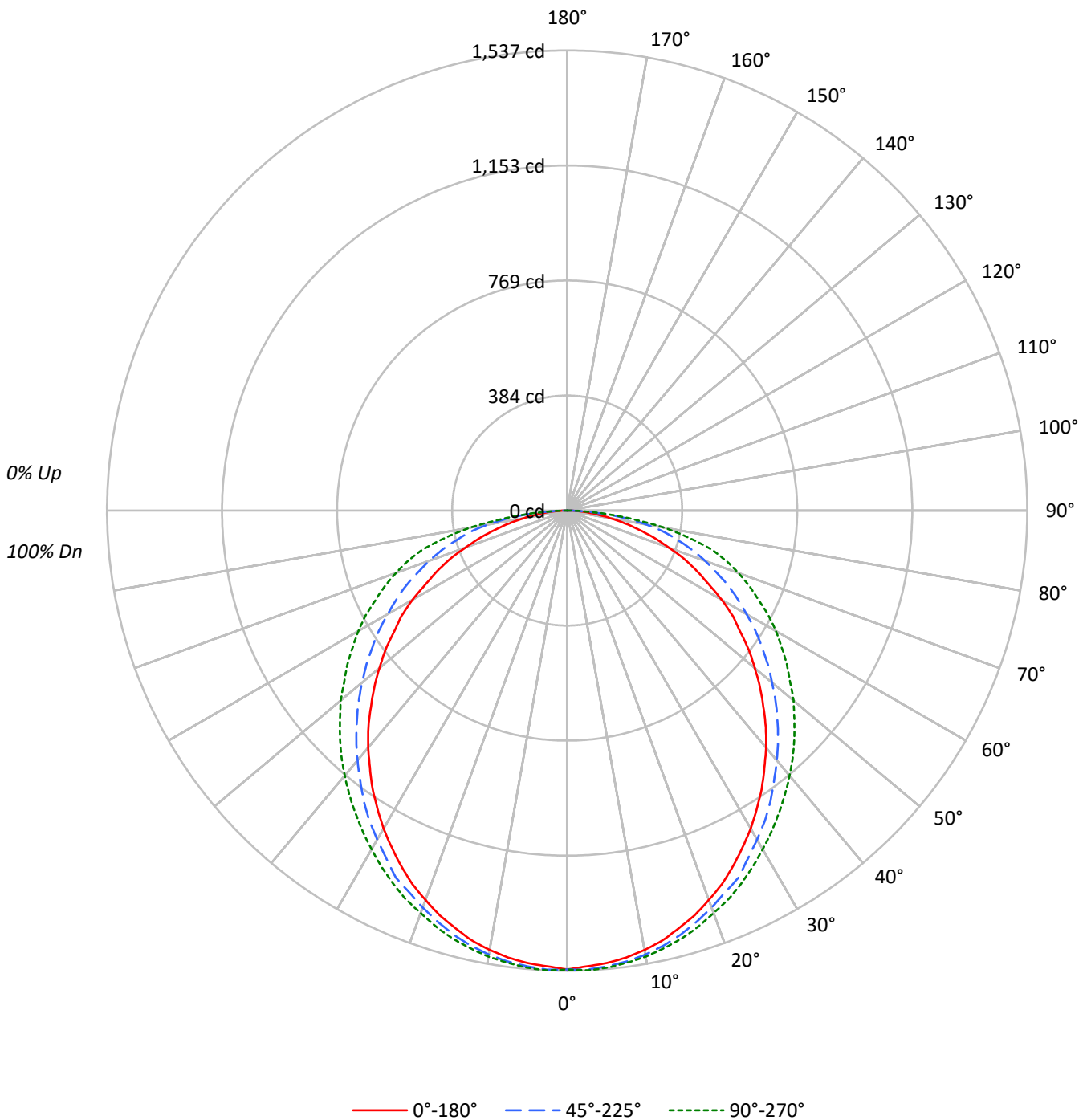
Input Watts (W): 36.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4124	4124	4124
5°	4098	4128	4140
10°	4073	4115	4133
15°	4022	4084	4121
20°	3963	4040	4096
25°	3892	4017	4083
30°	3811	3942	4059
35°	3723	3891	4051
40°	3631	3825	4059
45°	3528	3781	4085
50°	3426	3742	4132
55°	3309	3725	4204
60°	3211	3724	4333
65°	3051	3785	4491
70°	2844	3857	4781
75°	2606	3989	5165
80°	2269	4159	5086
85°	1985	3699	4042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	3.2
10°-20°	412.8	9.2
20°-30°	619.7	13.7
30°-40°	740.5	16.4
40°-50°	770.0	17.1
50°-60°	713.7	15.8
60°-70°	585.4	13.0
70°-80°	395.7	8.8
80°-90°	124.4	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°	1177.5	26.1
0°-40°	1918.0	42.6
0°-60°	3401.8	75.5
0°-90°	4507.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4507.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1517	1519	1528	1530	1533	144
15°	1444	1450	1466	1475	1479	407
25°	1311	1322	1353	1368	1375	604
35°	1133	1149	1184	1220	1233	708
45°	927	945	994	1051	1074	716
55°	705	728	794	865	896	634
65°	479	506	594	672	705	474
75°	251	293	384	461	497	266
85°	64	89	120	133	131	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.6	1532.6	1532.6	1532.6	1532.6
2.5°	1523.7	1528.1	1534.8	1537.0	1537.0
5°	1517.0	1519.3	1528.1	1530.3	1532.6
7.5°	1506.0	1510.4	1519.3	1521.5	1523.7
10°	1490.4	1494.9	1506.0	1510.4	1512.6
12.5°	1470.5	1474.9	1488.2	1494.9	1497.1
15°	1443.8	1450.5	1466.0	1474.9	1479.3
17.5°	1417.2	1423.9	1439.4	1452.7	1457.2
20°	1384.0	1399.5	1410.6	1428.3	1430.5
22.5°	1350.7	1359.6	1379.5	1397.3	1406.1
25°	1310.8	1321.9	1352.9	1368.4	1375.1
27.5°	1268.6	1284.2	1308.6	1333.0	1341.8
30°	1226.5	1237.6	1268.6	1297.5	1306.3
32.5°	1179.9	1195.4	1228.7	1257.5	1270.9
35°	1133.3	1148.9	1184.4	1219.8	1233.1
37.5°	1082.3	1100.1	1135.6	1177.7	1195.4
40°	1033.5	1046.8	1089.0	1140.0	1155.5
42.5°	982.5	998.1	1042.4	1097.9	1115.6
45°	927.1	944.8	993.6	1051.3	1073.5
47.5°	873.9	891.6	944.8	1002.5	1029.1
50°	818.4	840.6	893.8	960.3	987.0
52.5°	765.2	785.1	845.0	913.8	938.2
55°	705.3	727.5	794.0	865.0	896.0
57.5°	656.5	672.0	745.2	818.4	849.5
60°	596.6	616.6	692.0	769.6	805.1
62.5°	532.3	565.6	643.2	723.0	758.5
65°	479.1	505.7	594.4	672.0	705.3
67.5°	423.6	452.5	538.9	621.0	658.7
70°	361.5	399.2	490.2	572.2	607.7
72.5°	306.1	346.0	439.1	519.0	556.7
75°	250.6	292.8	383.7	461.3	496.8
77.5°	197.4	244.0	332.7	392.6	414.7
80°	146.4	190.7	268.4	310.5	328.2
82.5°	102.0	139.7	197.4	219.6	224.0
85°	64.3	88.7	119.8	133.1	130.9
87.5°	28.8	35.5	44.4	48.8	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)