

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: P390675

Luminaire Tested: **22CZ2-75VHE-RDP-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: P390675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-RDP-UNV-L940-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4236.1 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

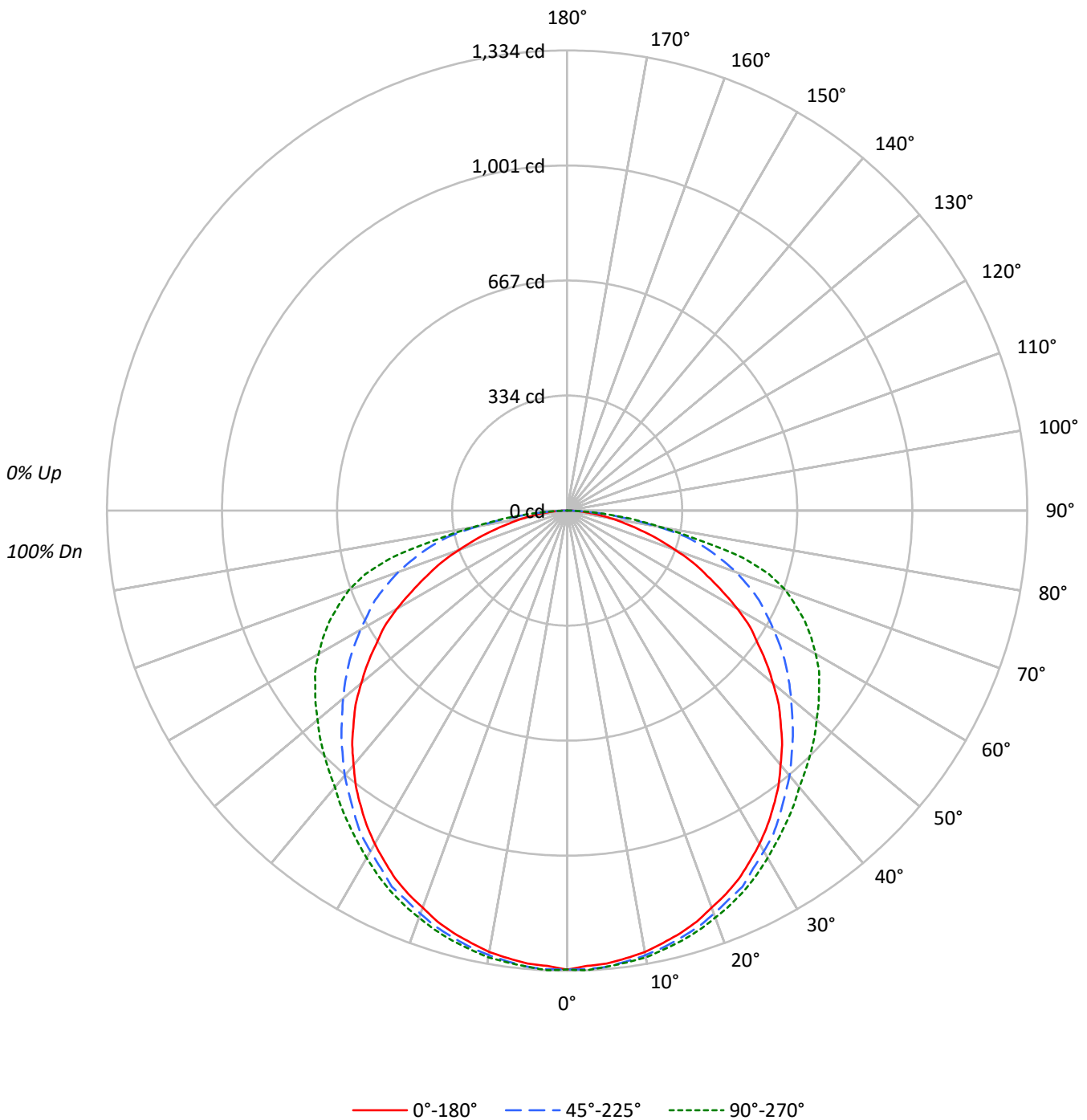
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3581	3581	3581
5°	3561	3586	3586
10°	3551	3576	3593
15°	3533	3568	3594
20°	3507	3561	3596
25°	3497	3572	3608
30°	3466	3544	3612
35°	3429	3532	3634
40°	3382	3525	3678
45°	3333	3522	3795
50°	3262	3548	3953
55°	3172	3626	4181
60°	3069	3723	4478
65°	2857	3909	4842
70°	2623	4094	5296
75°	2301	4310	5475
80°	1980	4105	4297
85°	1732	2983	3273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.0
10°-20°	361.4	8.5
20°-30°	551.4	13.0
30°-40°	673.2	15.9
40°-50°	719.8	17.0
50°-60°	694.8	16.4
60°-70°	598.1	14.1
70°-80°	404.7	9.6
80°-90°	106.8	2.5
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°	1038.6	24.5
0°-40°	1711.9	40.4
0°-60°	3126.5	73.8
0°-90°	4236.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4236.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1318	1321	1328	1328	1328	125
15°	1268	1271	1281	1287	1290	358
25°	1178	1184	1203	1209	1215	542
35°	1044	1053	1075	1097	1106	653
45°	876	891	926	972	997	676
55°	676	698	773	851	891	606
65°	449	492	614	710	760	446
75°	221	293	414	499	527	237
85°	56	78	97	100	106	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.6	1330.6	1330.6	1330.6	1330.6
2.5°	1321.3	1324.4	1330.6	1330.6	1333.7
5°	1318.2	1321.3	1327.5	1327.5	1327.5
7.5°	1308.8	1311.9	1318.2	1321.3	1321.3
10°	1299.5	1302.6	1308.8	1311.9	1315.1
12.5°	1283.9	1287.0	1296.4	1302.6	1302.6
15°	1268.3	1271.4	1280.8	1287.0	1290.1
17.5°	1249.6	1255.8	1265.2	1271.4	1274.5
20°	1224.7	1230.9	1243.4	1252.7	1255.8
22.5°	1202.9	1209.1	1221.6	1230.9	1237.1
25°	1177.9	1184.2	1202.9	1209.1	1215.3
27.5°	1146.8	1153.0	1168.6	1181.1	1190.4
30°	1115.6	1121.8	1140.5	1156.1	1162.4
32.5°	1081.3	1090.7	1112.5	1125.0	1134.3
35°	1043.9	1053.3	1075.1	1096.9	1106.3
37.5°	1006.5	1015.9	1037.7	1065.8	1078.2
40°	962.9	975.4	1003.4	1040.8	1047.1
42.5°	922.4	938.0	962.9	1006.5	1022.1
45°	875.7	891.2	925.5	972.3	997.2
47.5°	832.0	847.6	885.0	941.1	972.3
50°	779.1	800.9	847.6	913.1	944.2
52.5°	729.2	747.9	810.2	881.9	919.3
55°	676.2	698.0	772.8	850.7	891.2
57.5°	629.5	648.2	732.3	819.6	866.3
60°	570.3	595.2	691.8	785.3	832.0
62.5°	507.9	545.3	651.3	747.9	797.8
65°	448.7	492.4	613.9	710.5	760.4
67.5°	395.8	442.5	567.2	670.0	716.7
70°	333.4	392.6	520.4	620.1	673.1
72.5°	277.3	342.8	467.4	567.2	613.9
75°	221.3	292.9	414.5	498.6	526.6
77.5°	171.4	240.0	355.3	380.2	383.3
80°	127.8	190.1	264.9	268.0	277.3
82.5°	87.3	134.0	171.4	187.0	190.1
85°	56.1	77.9	96.6	99.7	106.0
87.5°	24.9	28.0	34.3	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)