

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: P390575

Luminaire Tested: **22CZ2-65VHE-RDP-UNV-L930-CD1-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: P390575
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: 22CZ2-65VHE-RDP-UNV-L930-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3639.7 lumens
Efficiency: N/A
Efficacy: 76.0 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

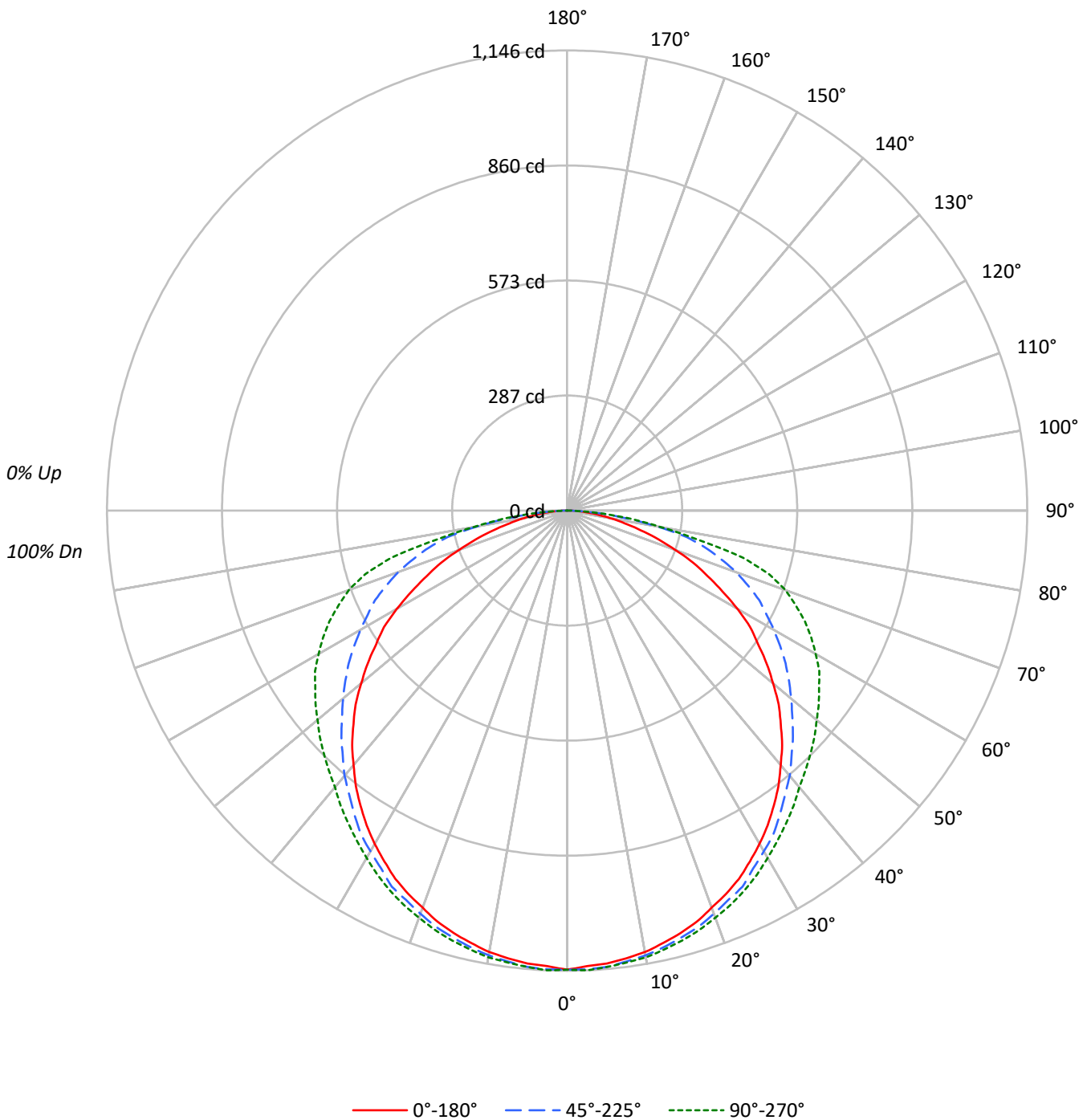
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3077	3077	3077
5°	3059	3081	3081
10°	3051	3073	3087
15°	3036	3066	3088
20°	3013	3059	3090
25°	3005	3069	3100
30°	2978	3045	3103
35°	2947	3034	3122
40°	2906	3029	3160
45°	2863	3026	3261
50°	2802	3049	3396
55°	2726	3115	3593
60°	2637	3199	3848
65°	2455	3359	4160
70°	2254	3518	4550
75°	1976	3702	4705
80°	1702	3527	3693
85°	1488	2563	2810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.0
10°-20°	310.5	8.5
20°-30°	473.8	13.0
30°-40°	578.5	15.9
40°-50°	618.5	17.0
50°-60°	597.0	16.4
60°-70°	513.9	14.1
70°-80°	347.7	9.6
80°-90°	91.8	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°	892.4	24.5
0°-40°	1470.9	40.4
0°-60°	2686.4	73.8
0°-90°	3639.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3639.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1133	1135	1141	1141	1141	108
15°	1090	1092	1100	1106	1108	307
25°	1012	1018	1034	1039	1044	466
35°	897	905	924	942	950	561
45°	752	766	795	835	857	581
55°	581	600	664	731	766	521
65°	386	423	528	610	653	383
75°	190	252	356	428	452	204
85°	48	67	83	86	91	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.3	1143.3	1143.3	1143.3	1143.3
2.5°	1135.3	1137.9	1143.3	1143.3	1146.0
5°	1132.6	1135.3	1140.6	1140.6	1140.6
7.5°	1124.6	1127.2	1132.6	1135.3	1135.3
10°	1116.5	1119.2	1124.6	1127.2	1129.9
12.5°	1103.1	1105.8	1113.8	1119.2	1119.2
15°	1089.7	1092.4	1100.5	1105.8	1108.5
17.5°	1073.7	1079.0	1087.1	1092.4	1095.1
20°	1052.3	1057.6	1068.3	1076.4	1079.0
22.5°	1033.5	1038.9	1049.6	1057.6	1063.0
25°	1012.1	1017.5	1033.5	1038.9	1044.2
27.5°	985.3	990.7	1004.1	1014.8	1022.8
30°	958.5	963.9	980.0	993.4	998.7
32.5°	929.1	937.1	955.9	966.6	974.6
35°	897.0	905.0	923.7	942.5	950.5
37.5°	864.8	872.9	891.6	915.7	926.4
40°	827.3	838.1	862.2	894.3	899.6
42.5°	792.5	805.9	827.3	864.8	878.2
45°	752.4	765.8	795.2	835.4	856.8
47.5°	714.9	728.3	760.4	808.6	835.4
50°	669.4	688.1	728.3	784.5	811.3
52.5°	626.5	642.6	696.2	757.7	789.9
55°	581.0	599.8	664.0	731.0	765.8
57.5°	540.9	556.9	629.2	704.2	744.3
60°	490.0	511.4	594.4	674.7	714.9
62.5°	436.4	468.6	559.6	642.6	685.4
65°	385.6	423.0	527.5	610.5	653.3
67.5°	340.0	380.2	487.3	575.7	615.8
70°	286.5	337.4	447.1	532.8	578.3
72.5°	238.3	294.5	401.6	487.3	527.5
75°	190.1	251.7	356.1	428.4	452.5
77.5°	147.3	206.2	305.2	326.7	329.3
80°	109.8	163.3	227.6	230.3	238.3
82.5°	75.0	115.1	147.3	160.7	163.3
85°	48.2	66.9	83.0	85.7	91.0
87.5°	21.4	24.1	29.5	26.8	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)