

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: P390574

Luminaire Tested: **22CZ2-65VHE-RDP-UNV-L930-CD1-SWPD1-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: P390574
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-SWPD1-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: 3594.5 lumens
Efficiency: N/A
Efficacy: 75.0 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

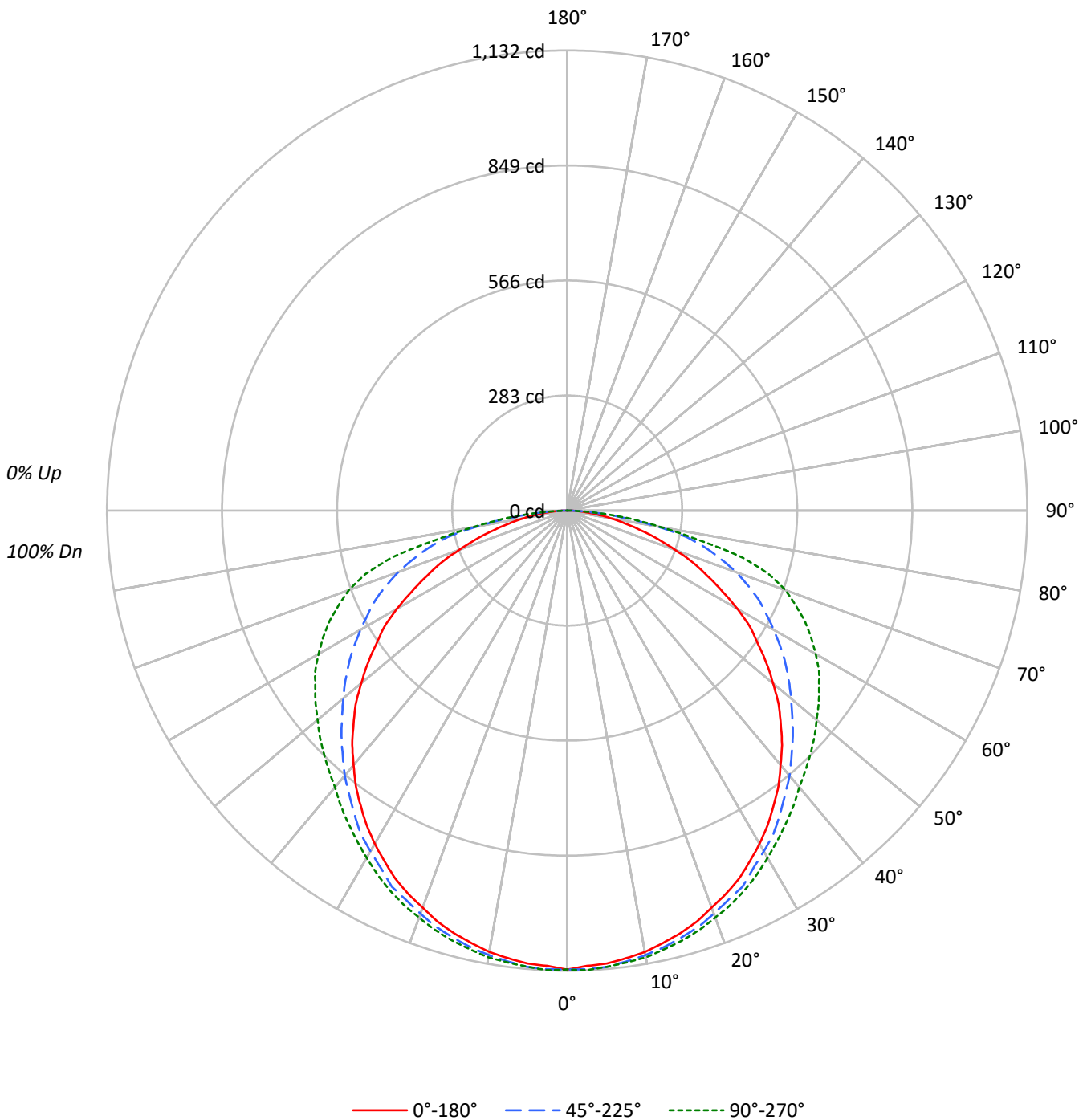
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P390574

CATALOG NUMBER: 22CZ2-65VHE-RDP-UNV-L930-CD1-SWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P390574

CATALOG NUMBER: 22CZ2-65VHE-RDP-UNV-L930-CD1-SWPD1-U

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°	3038	3038	3038
5°	3021	3043	3043
10°	3013	3035	3049
15°	2998	3028	3050
20°	2976	3021	3052
25°	2968	3031	3062
30°	2941	3007	3065
35°	2910	2997	3084
40°	2870	2991	3121
45°	2828	2989	3220
50°	2768	3011	3354
55°	2692	3077	3548
60°	2604	3159	3800
65°	2425	3317	4108
70°	2226	3474	4494
75°	1952	3657	4646
80°	1680	3484	3646
85°	1470	2532	2776



TEST NUMBER: P390574

CATALOG NUMBER: 22CZ2-65VHE-RDP-UNV-L930-CD1-SWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.0
10°-20°	306.7	8.5
20°-30°	467.9	13.0
30°-40°	571.3	15.9
40°-50°	610.8	17.0
50°-60°	589.6	16.4
60°-70°	507.5	14.1
70°-80°	343.4	9.6
80°-90°	90.6	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°	881.3	24.5
0°-40°	1452.6	40.4
0°-60°	2653.0	73.8
0°-90°	3594.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3594.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1118	1121	1126	1126	1126	106
15°	1076	1079	1087	1092	1095	304
25°	1000	1005	1021	1026	1031	460
35°	886	894	912	931	939	554
45°	743	756	785	825	846	574
55°	574	592	656	722	756	514
65°	381	418	521	603	645	379
75°	188	249	352	423	447	201
85°	48	66	82	85	90	54
90°	0	0	0	0	0	



TEST NUMBER: P390574

CATALOG NUMBER: 22CZ2-65VHE-RDP-UNV-L930-CD1-SWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1121.2	1123.8	1129.1	1129.1	1131.7
5°	1118.5	1121.2	1126.5	1126.5	1126.5
7.5°	1110.6	1113.2	1118.5	1121.2	1121.2
10°	1102.7	1105.3	1110.6	1113.2	1115.9
12.5°	1089.4	1092.1	1100.0	1105.3	1105.3
15°	1076.2	1078.9	1086.8	1092.1	1094.7
17.5°	1060.3	1065.6	1073.6	1078.9	1081.5
20°	1039.2	1044.5	1055.1	1063.0	1065.6
22.5°	1020.7	1026.0	1036.5	1044.5	1049.8
25°	999.5	1004.8	1020.7	1026.0	1031.3
27.5°	973.1	978.4	991.6	1002.2	1010.1
30°	946.6	951.9	967.8	981.0	986.3
32.5°	917.6	925.5	944.0	954.6	962.5
35°	885.8	893.8	912.3	930.8	938.7
37.5°	854.1	862.0	880.5	904.3	914.9
40°	817.1	827.7	851.4	883.2	888.5
42.5°	782.7	795.9	817.1	854.1	867.3
45°	743.0	756.3	785.3	825.0	846.2
47.5°	706.0	719.2	751.0	798.6	825.0
50°	661.1	679.6	719.2	774.8	801.2
52.5°	618.8	634.6	687.5	748.3	780.1
55°	573.8	592.3	655.8	721.9	756.3
57.5°	534.1	550.0	621.4	695.4	735.1
60°	483.9	505.1	587.0	666.4	706.0
62.5°	431.0	462.7	552.6	634.6	676.9
65°	380.8	417.8	520.9	602.9	645.2
67.5°	335.8	375.5	481.3	568.5	608.2
70°	282.9	333.2	441.6	526.2	571.2
72.5°	235.3	290.9	396.6	481.3	520.9
75°	187.7	248.6	351.7	423.1	446.9
77.5°	145.4	203.6	301.4	322.6	325.2
80°	108.4	161.3	224.8	227.4	235.3
82.5°	74.0	113.7	145.4	158.7	161.3
85°	47.6	66.1	82.0	84.6	89.9
87.5°	21.2	23.8	29.1	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)