

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: P390573

Luminaire Tested: **22CZ2-65VHE-RDP-UNV-L930-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: P390573
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-SDWPD1-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: 3551.2 lumens
Efficiency: N/A
Efficacy: 74.1 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

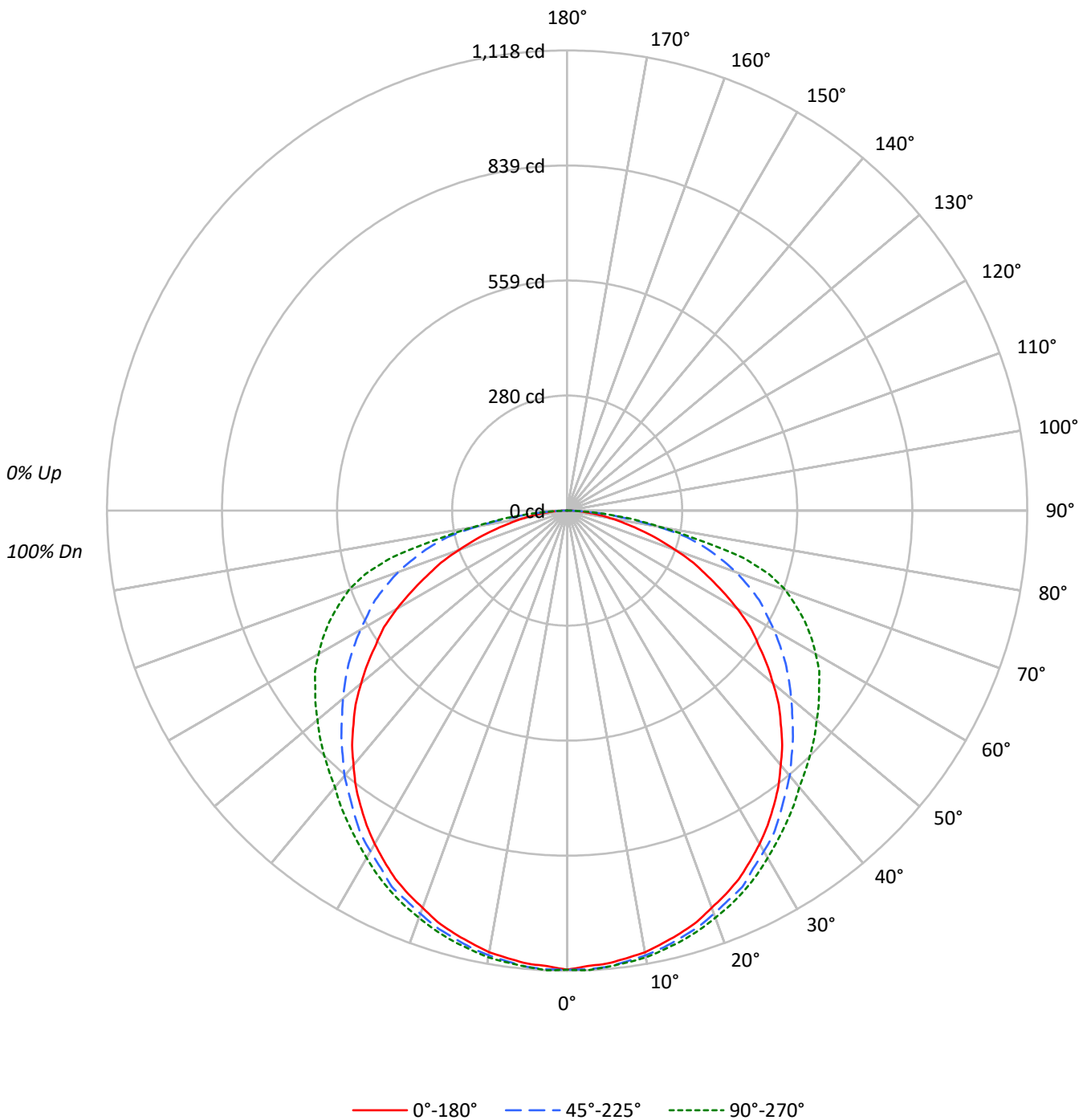
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3002	3002	3002
5°	2985	3006	3006
10°	2977	2998	3012
15°	2962	2991	3013
20°	2940	2985	3015
25°	2932	2994	3025
30°	2906	2971	3028
35°	2875	2961	3047
40°	2836	2955	3084
45°	2794	2953	3181
50°	2734	2975	3314
55°	2660	3040	3505
60°	2573	3122	3754
65°	2395	3277	4059
70°	2199	3433	4440
75°	1929	3612	4590
80°	1660	3442	3603
85°	1451	2501	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	3.0
10°-20°	303.0	8.5
20°-30°	462.2	13.0
30°-40°	564.4	15.9
40°-50°	603.5	17.0
50°-60°	582.5	16.4
60°-70°	501.4	14.1
70°-80°	339.3	9.6
80°-90°	89.5	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°	870.7	24.5
0°-40°	1435.1	40.4
0°-60°	2621.0	73.8
0°-90°	3551.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3551.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1105	1108	1113	1113	1113	105
15°	1063	1066	1074	1079	1082	300
25°	988	993	1008	1014	1019	454
35°	875	883	901	920	927	548
45°	734	747	776	815	836	567
55°	567	585	648	713	747	508
65°	376	413	515	596	637	374
75°	186	246	347	418	442	199
85°	47	65	81	84	89	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1107.7	1110.3	1115.5	1115.5	1118.1
5°	1105.0	1107.7	1112.9	1112.9	1112.9
7.5°	1097.2	1099.8	1105.0	1107.7	1107.7
10°	1089.4	1092.0	1097.2	1099.8	1102.4
12.5°	1076.3	1078.9	1086.8	1092.0	1092.0
15°	1063.2	1065.9	1073.7	1078.9	1081.5
17.5°	1047.6	1052.8	1060.6	1065.9	1068.5
20°	1026.7	1031.9	1042.3	1050.2	1052.8
22.5°	1008.4	1013.6	1024.1	1031.9	1037.1
25°	987.5	992.7	1008.4	1013.6	1018.8
27.5°	961.4	966.6	979.6	990.1	997.9
30°	935.2	940.5	956.1	969.2	974.4
32.5°	906.5	914.3	932.6	943.1	950.9
35°	875.2	883.0	901.3	919.6	927.4
37.5°	843.8	851.6	869.9	893.4	903.9
40°	807.2	817.7	841.2	872.5	877.8
42.5°	773.3	786.3	807.2	843.8	856.9
45°	734.1	747.1	775.9	815.1	836.0
47.5°	697.5	710.6	741.9	788.9	815.1
50°	653.1	671.4	710.6	765.4	791.6
52.5°	611.3	627.0	679.2	739.3	770.7
55°	566.9	585.2	647.9	713.2	747.1
57.5°	527.7	543.4	613.9	687.1	726.2
60°	478.1	499.0	580.0	658.3	697.5
62.5°	425.8	457.2	546.0	627.0	668.8
65°	376.2	412.8	514.6	595.6	637.4
67.5°	331.8	371.0	475.5	561.7	600.9
70°	279.5	329.2	436.3	519.9	564.3
72.5°	232.5	287.4	391.9	475.5	514.6
75°	185.5	245.6	347.4	418.0	441.5
77.5°	143.7	201.2	297.8	318.7	321.3
80°	107.1	159.4	222.1	224.7	232.5
82.5°	73.1	112.3	143.7	156.7	159.4
85°	47.0	65.3	81.0	83.6	88.8
87.5°	20.9	23.5	28.7	26.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)