

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: P388278

Luminaire Tested: **22CZ2-34VHE-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: P388278
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: 22CZ2-34VHE-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: 3183.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

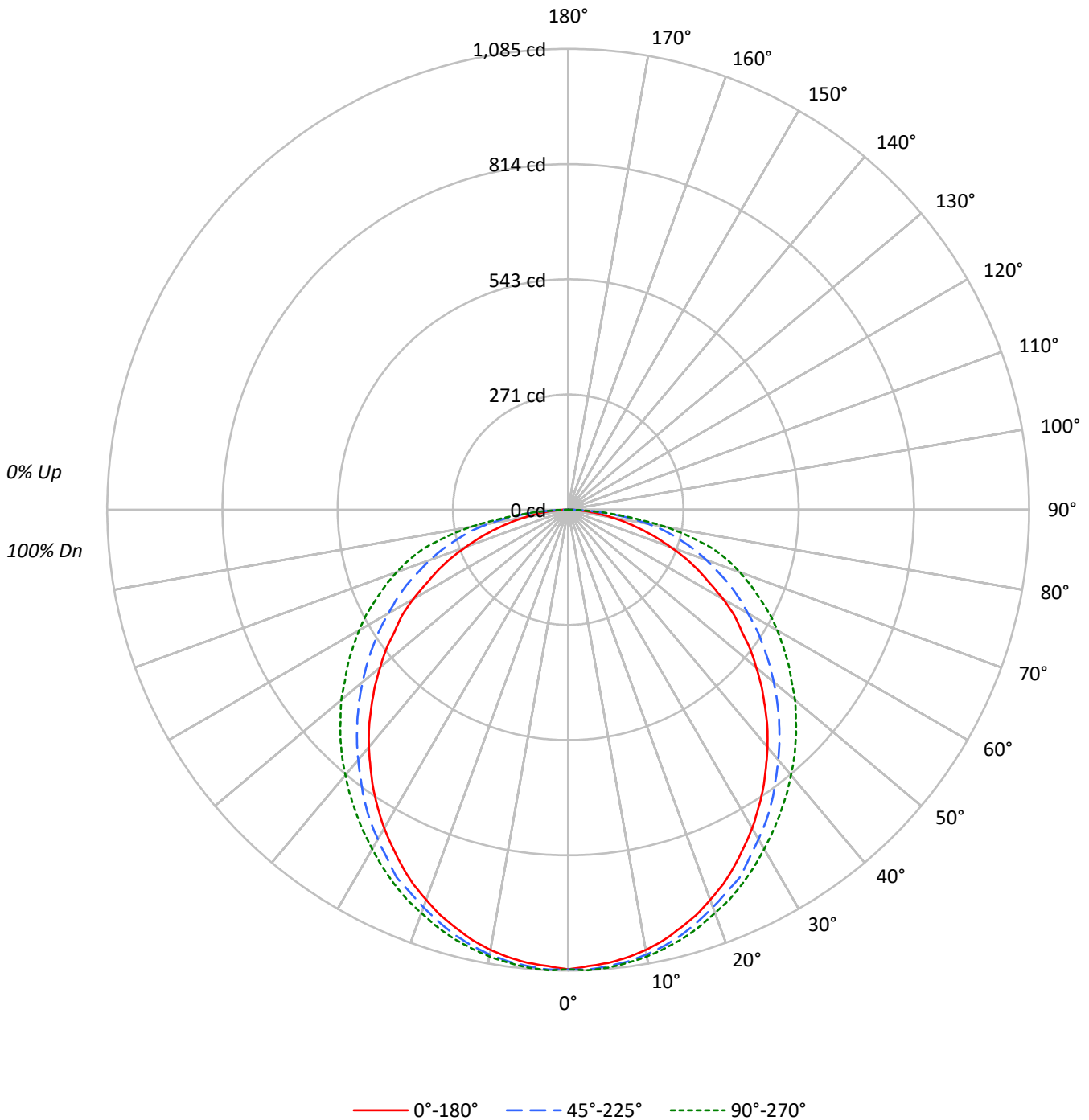
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2912	2912	2912
5°	2894	2915	2924
10°	2876	2906	2919
15°	2841	2884	2910
20°	2799	2853	2893
25°	2749	2837	2883
30°	2691	2784	2866
35°	2629	2748	2861
40°	2564	2701	2866
45°	2492	2670	2885
50°	2419	2642	2918
55°	2337	2631	2969
60°	2267	2630	3060
65°	2154	2673	3172
70°	2009	2723	3377
75°	1840	2818	3647
80°	1602	2937	3592
85°	1402	2612	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.2
10°-20°	291.5	9.2
20°-30°	437.7	13.7
30°-40°	523.0	16.4
40°-50°	543.8	17.1
50°-60°	504.0	15.8
60°-70°	413.4	13.0
70°-80°	279.5	8.8
80°-90°	87.8	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°	831.5	26.1
0°-40°	1354.5	42.6
0°-60°	2402.3	75.5
0°-90°	3183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1071	1073	1079	1081	1082	102
15°	1020	1024	1035	1042	1045	288
25°	926	934	955	966	971	426
35°	800	811	836	861	871	500
45°	655	667	702	742	758	506
55°	498	514	561	611	633	448
65°	338	357	420	475	498	334
75°	177	207	271	326	351	188
85°	45	63	85	94	92	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.3	1082.3	1082.3	1082.3	1082.3
2.5°	1076.0	1079.1	1083.8	1085.4	1085.4
5°	1071.3	1072.9	1079.1	1080.7	1082.3
7.5°	1063.5	1066.6	1072.9	1074.4	1076.0
10°	1052.5	1055.7	1063.5	1066.6	1068.2
12.5°	1038.4	1041.6	1051.0	1055.7	1057.2
15°	1019.6	1024.3	1035.3	1041.6	1044.7
17.5°	1000.8	1005.5	1016.5	1025.9	1029.0
20°	977.3	988.3	996.1	1008.7	1010.2
22.5°	953.8	960.1	974.2	986.7	993.0
25°	925.7	933.5	955.4	966.4	971.1
27.5°	895.9	906.9	924.1	941.3	947.6
30°	866.1	874.0	895.9	916.3	922.5
32.5°	833.2	844.2	867.7	888.1	897.5
35°	800.4	811.3	836.4	861.4	870.8
37.5°	764.3	776.9	801.9	831.7	844.2
40°	729.9	739.3	769.0	805.1	816.0
42.5°	693.8	704.8	736.1	775.3	787.8
45°	654.7	667.2	701.7	742.4	758.1
47.5°	617.1	629.6	667.2	707.9	726.7
50°	577.9	593.6	631.2	678.2	697.0
52.5°	540.4	554.5	596.7	645.3	662.5
55°	498.1	513.7	560.7	610.8	632.8
57.5°	463.6	474.6	526.3	577.9	599.9
60°	421.3	435.4	488.7	543.5	568.5
62.5°	375.9	399.4	454.2	510.6	535.7
65°	338.3	357.1	419.8	474.6	498.1
67.5°	299.2	319.5	380.6	438.5	465.2
70°	255.3	281.9	346.1	404.1	429.2
72.5°	216.1	244.3	310.1	366.5	393.1
75°	177.0	206.7	271.0	325.8	350.8
77.5°	139.4	172.3	234.9	277.2	292.9
80°	103.4	134.7	189.5	219.3	231.8
82.5°	72.0	98.7	139.4	155.1	158.2
85°	45.4	62.6	84.6	94.0	92.4
87.5°	20.4	25.1	31.3	34.5	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)