

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: P275435

Luminaire Tested: **14CZ2-35-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3200.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

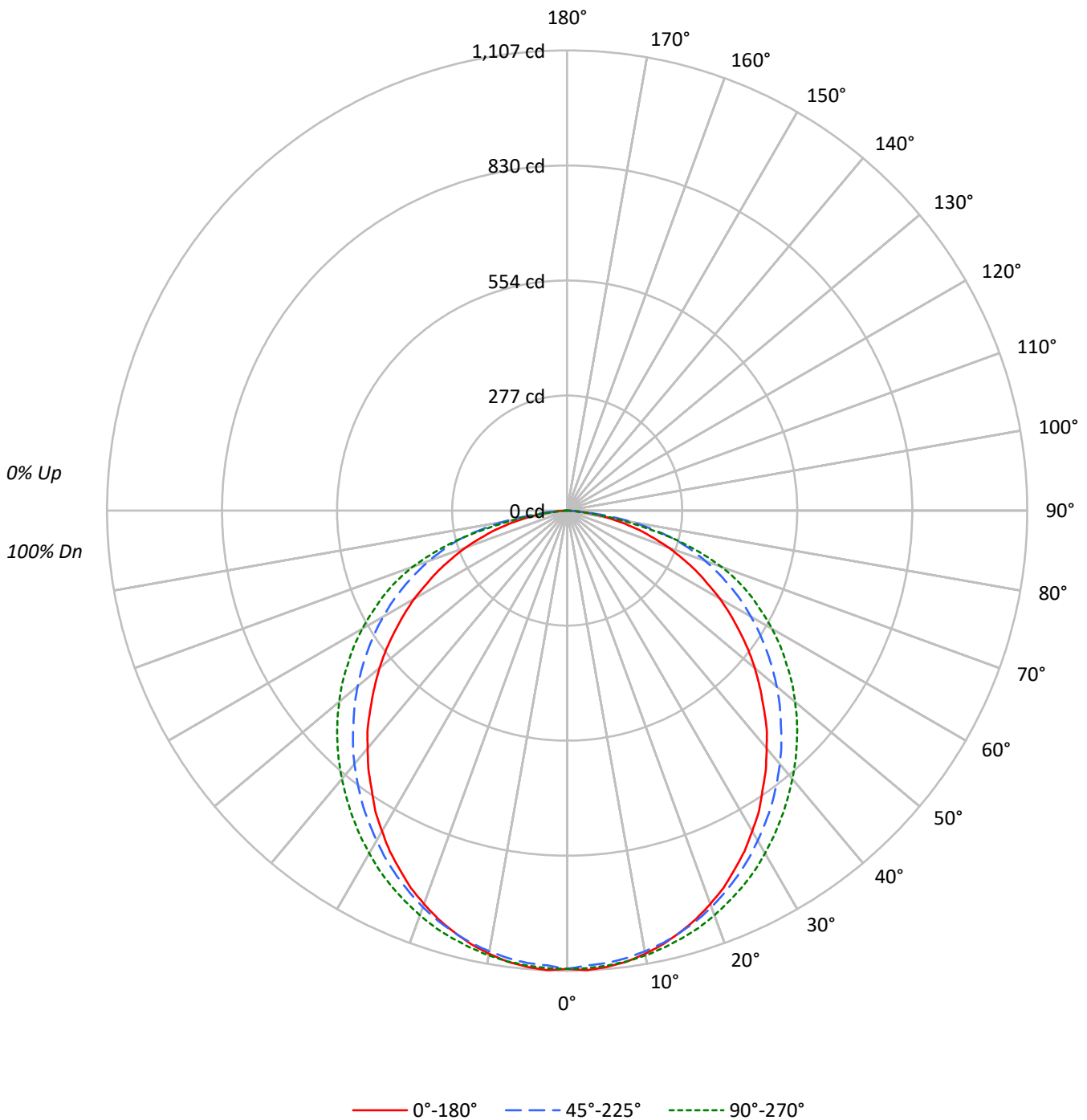
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2967	2967	2967
5°	2976	2951	2968
10°	2958	2942	2969
15°	2926	2928	2968
20°	2883	2908	2967
25°	2828	2879	2964
30°	2767	2849	2958
35°	2693	2825	2956
40°	2622	2797	2960
45°	2542	2767	2976
50°	2467	2754	2996
55°	2373	2745	3023
60°	2289	2750	3064
65°	2172	2758	3112
70°	2038	2779	3110
75°	1848	2804	2811
80°	1516	2422	2001
85°	1124	1145	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.3
10°-20°	298.0	9.3
20°-30°	448.9	14.0
30°-40°	538.7	16.8
40°-50°	561.5	17.5
50°-60°	519.8	16.2
60°-70°	420.0	13.1
70°-80°	256.1	8.0
80°-90°	52.9	1.7
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°	851.2	26.6
0°-40°	1389.9	43.4
0°-60°	2471.1	77.2
0°-90°	3200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1102	1099	1092	1100	1099	105
15°	1050	1051	1051	1065	1065	296
25°	953	958	970	994	998	439
35°	820	833	860	891	900	514
45°	668	688	727	768	782	516
55°	506	532	585	631	644	453
65°	341	375	433	477	489	337
75°	178	217	270	274	270	187
85°	36	54	37	21	15	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.4	1102.4	1102.4	1102.4	1102.4
2.5°	1106.7	1103.1	1095.3	1103.1	1101.7
5°	1101.7	1098.8	1092.4	1100.3	1098.8
7.5°	1094.6	1091.7	1086.0	1095.3	1093.8
10°	1082.4	1081.0	1076.7	1087.4	1086.7
12.5°	1068.2	1067.4	1065.3	1077.4	1076.7
15°	1050.3	1051.0	1051.0	1065.3	1065.3
17.5°	1030.3	1031.8	1034.6	1050.3	1052.5
20°	1006.8	1009.7	1015.4	1033.2	1036.1
22.5°	982.5	984.7	993.2	1014.6	1017.5
25°	952.6	958.3	969.7	994.0	998.2
27.5°	924.0	929.0	944.7	969.7	976.8
30°	890.5	898.3	916.9	944.0	951.9
32.5°	858.4	866.9	888.4	919.7	926.9
35°	819.9	832.7	859.8	891.2	899.8
37.5°	784.9	797.0	827.7	861.9	871.9
40°	746.4	761.3	796.3	832.7	842.7
42.5°	710.7	725.0	762.8	799.9	813.4
45°	667.9	687.8	727.1	767.8	782.0
47.5°	628.6	648.6	693.6	737.1	749.9
50°	589.4	610.8	657.9	702.8	715.7
52.5°	548.7	571.5	622.2	667.2	682.1
55°	505.9	532.3	585.1	630.8	644.3
57.5°	465.2	492.3	548.7	595.1	608.6
60°	425.3	453.1	510.9	555.1	569.4
62.5°	381.0	413.8	473.8	517.3	528.0
65°	341.1	374.6	433.1	476.6	488.8
67.5°	299.0	335.4	393.9	433.8	445.2
70°	259.0	296.8	353.2	390.3	395.3
72.5°	216.2	254.7	311.8	335.4	335.4
75°	177.7	216.9	269.7	274.0	270.4
77.5°	135.6	179.1	213.3	204.8	196.2
80°	97.8	140.6	156.3	140.6	129.1
82.5°	65.6	102.0	94.2	74.9	66.4
85°	36.4	54.2	37.1	20.7	15.0
87.5°	13.6	12.1	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)