

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: P258680

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-UNV-L92765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3122.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

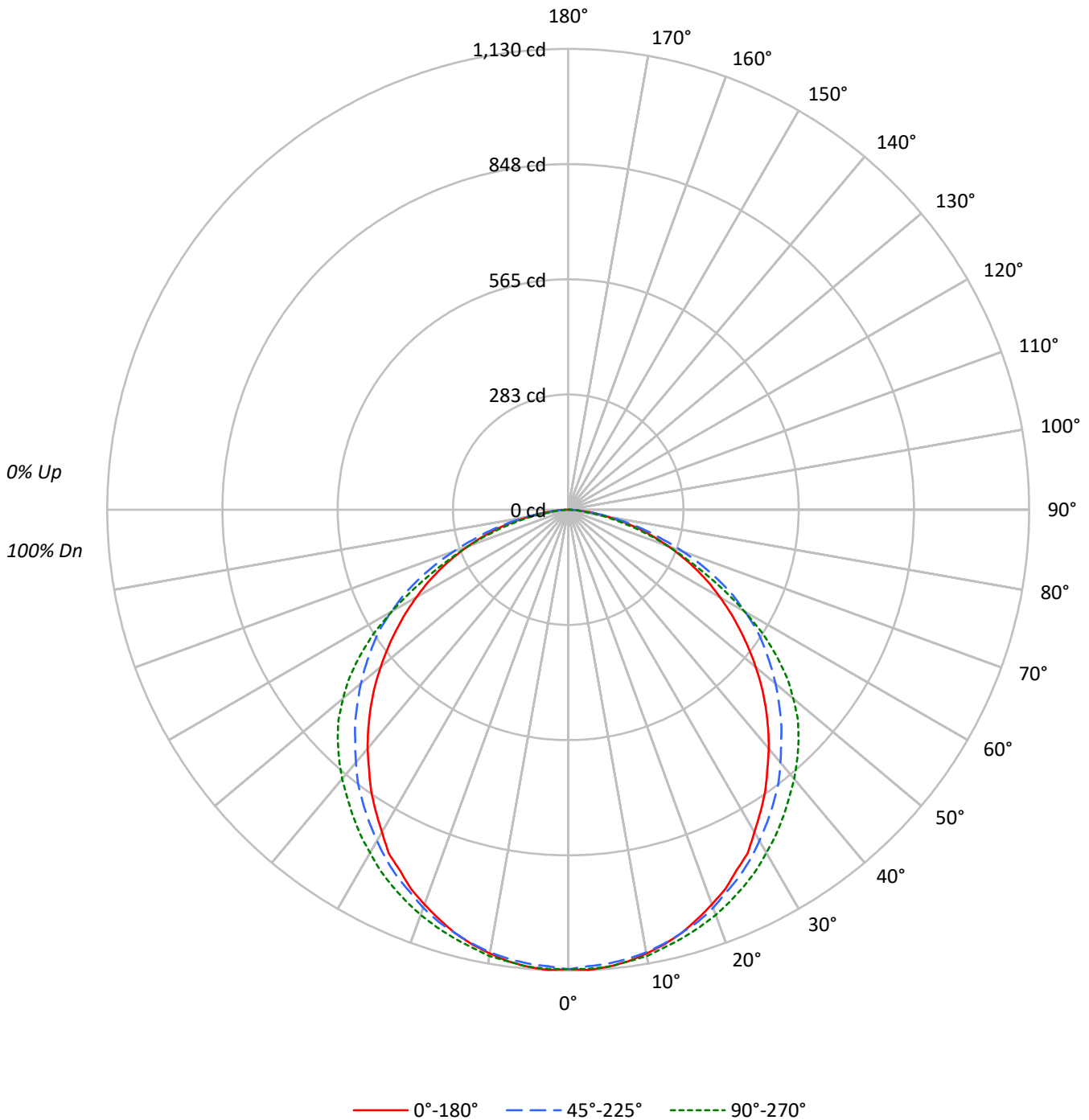
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3032	3032	3032
5°	3039	3018	3039
10°	3020	3011	3037
15°	2993	2993	3027
20°	2949	2975	3028
25°	2897	2947	3025
30°	2836	2912	3018
35°	2766	2882	3019
40°	2687	2844	3028
45°	2606	2812	3040
50°	2513	2777	3015
55°	2412	2751	2917
60°	2311	2692	2684
65°	2205	2578	2352
70°	2046	2349	2035
75°	1856	2048	1680
80°	1478	1623	1240
85°	1047	902	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	3.4
10°-20°	304.5	9.8
20°-30°	459.2	14.7
30°-40°	550.4	17.6
40°-50°	571.2	18.3
50°-60°	515.2	16.5
60°-70°	375.8	12.0
70°-80°	197.2	6.3
80°-90°	42.1	1.3
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°	870.3	27.9
0°-40°	1420.7	45.5
0°-60°	2507.0	80.3
0°-90°	3122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1125	1122	1117	1125	1125	107
15°	1074	1074	1074	1087	1087	303
25°	976	980	993	1014	1019	450
35°	842	851	877	910	919	526
45°	685	699	739	783	799	528
55°	514	532	586	625	622	460
65°	346	366	405	389	369	342
75°	178	203	197	171	162	187
85°	34	42	29	25	23	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.6	1126.6	1126.6	1126.6	1126.6
2.5°	1129.7	1126.6	1120.5	1126.6	1126.6
5°	1125.1	1122.0	1117.4	1125.1	1125.1
7.5°	1117.4	1114.3	1111.3	1118.9	1117.4
10°	1105.1	1103.6	1102.0	1111.3	1111.3
12.5°	1091.2	1091.2	1089.7	1100.5	1098.9
15°	1074.3	1074.3	1074.3	1086.6	1086.6
17.5°	1052.8	1055.8	1058.9	1072.8	1072.8
20°	1029.7	1032.8	1038.9	1055.8	1057.4
22.5°	1006.6	1008.1	1014.3	1034.3	1038.9
25°	975.8	980.4	992.7	1014.3	1018.9
27.5°	951.2	952.7	966.6	991.2	997.4
30°	912.7	923.5	937.3	965.0	971.2
32.5°	877.3	886.5	908.1	937.3	946.6
35°	841.9	851.1	877.3	909.6	918.9
37.5°	801.9	815.7	846.5	878.8	889.6
40°	764.9	777.3	809.6	849.6	861.9
42.5°	724.9	737.2	772.6	817.3	831.1
45°	684.9	698.8	738.8	783.4	798.8
47.5°	643.4	658.7	700.3	749.6	763.4
50°	600.3	617.2	663.4	714.2	720.3
52.5°	557.2	575.6	624.9	669.5	675.7
55°	514.1	532.5	586.4	624.9	621.8
57.5°	472.5	492.5	547.9	567.9	564.9
60°	429.4	451.0	500.2	509.5	498.7
62.5°	389.4	409.4	455.6	447.9	434.0
65°	346.3	366.3	404.8	389.4	369.4
67.5°	303.2	327.8	352.5	326.3	310.9
70°	260.1	287.8	298.6	272.4	258.6
72.5°	218.6	247.8	244.7	218.6	209.3
75°	178.5	203.2	197.0	170.8	161.6
77.5°	135.4	163.1	149.3	127.7	120.1
80°	95.4	120.1	104.7	86.2	80.0
82.5°	63.1	80.0	64.6	50.8	46.2
85°	33.9	41.6	29.2	24.6	23.1
87.5°	13.9	12.3	10.8	10.8	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)