

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: P258854

Luminaire Tested: **14CZ-LD5-39-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3118.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

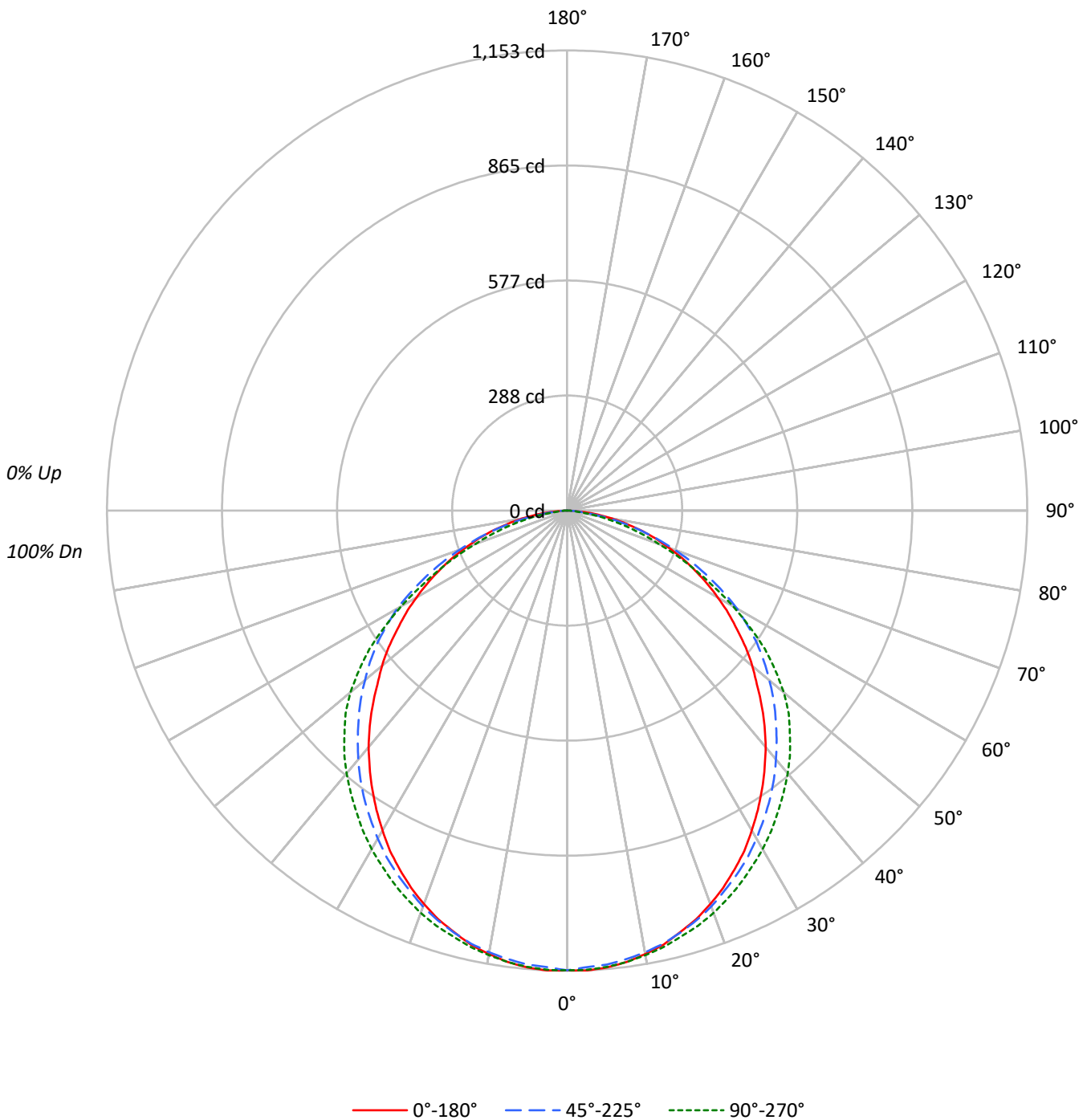
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3099	3099	3099
5°	3104	3085	3100
10°	3083	3071	3090
15°	3046	3050	3077
20°	3004	3024	3072
25°	2945	2987	3057
30°	2875	2948	3044
35°	2798	2907	3026
40°	2719	2860	3021
45°	2622	2813	3003
50°	2536	2768	2966
55°	2438	2725	2836
60°	2348	2647	2587
65°	2247	2477	2274
70°	2120	2252	1924
75°	1979	1951	1589
80°	1743	1508	1162
85°	1374	729	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.5
10°-20°	310.1	9.9
20°-30°	465.3	14.9
30°-40°	554.7	17.8
40°-50°	571.4	18.3
50°-60°	509.2	16.3
60°-70°	366.9	11.8
70°-80°	191.9	6.2
80°-90°	39.7	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°	884.2	28.4
0°-40°	1438.9	46.1
0°-60°	2519.5	80.8
0°-90°	3118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1149	1146	1142	1149	1148	109
15°	1093	1095	1095	1106	1105	309
25°	992	998	1006	1025	1030	457
35°	852	863	885	914	921	533
45°	689	704	739	781	789	532
55°	520	536	581	607	604	466
65°	353	365	389	371	357	350
75°	190	200	188	163	153	202
85°	44	39	24	21	21	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.8	1151.8	1151.8	1151.8	1151.8
2.5°	1153.2	1150.4	1144.8	1151.8	1151.8
5°	1149.0	1146.2	1142.1	1149.0	1147.6
7.5°	1140.7	1137.9	1133.7	1142.1	1140.7
10°	1128.2	1126.8	1124.0	1132.3	1130.9
12.5°	1114.3	1112.9	1111.5	1119.8	1119.8
15°	1093.4	1094.8	1094.8	1105.9	1104.6
17.5°	1074.0	1075.4	1076.8	1090.7	1090.7
20°	1049.0	1050.4	1055.9	1071.2	1072.6
22.5°	1022.6	1024.0	1030.9	1049.0	1051.8
25°	992.0	997.6	1005.9	1025.4	1029.5
27.5°	961.4	965.6	979.5	1001.7	1004.5
30°	925.3	933.7	948.9	974.0	979.5
32.5°	889.2	898.9	917.0	944.8	951.7
35°	851.7	862.8	885.0	914.2	921.2
37.5°	812.8	822.5	850.3	880.9	890.6
40°	773.9	783.6	814.2	848.9	860.0
42.5°	732.2	746.1	776.7	815.6	826.7
45°	689.1	704.4	739.1	780.8	789.2
47.5°	644.7	661.3	701.6	743.3	753.0
50°	605.8	621.0	661.3	701.6	708.6
52.5°	564.1	578.0	622.4	655.8	657.2
55°	519.6	536.3	580.8	607.2	604.4
57.5°	479.3	493.2	536.3	550.2	541.9
60°	436.3	448.8	491.8	493.2	480.7
62.5°	394.6	407.1	440.4	430.7	415.4
65°	352.9	365.4	389.0	371.0	357.1
67.5°	312.6	323.7	337.6	314.0	300.1
70°	269.5	284.8	286.2	258.4	244.5
72.5°	232.0	240.4	237.6	211.2	198.7
75°	190.3	200.1	187.6	162.6	152.8
77.5°	151.4	158.4	141.7	118.1	111.1
80°	112.5	116.7	97.3	79.2	75.0
82.5°	76.4	76.4	55.6	43.1	38.9
85°	44.5	38.9	23.6	20.8	20.8
87.5°	15.3	9.7	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)