

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: P258585

Luminaire Tested: **14CZ-LD5-35-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258585
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-L93050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3302.0 lumens
Efficiency: N/A
Efficacy: 115.7 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

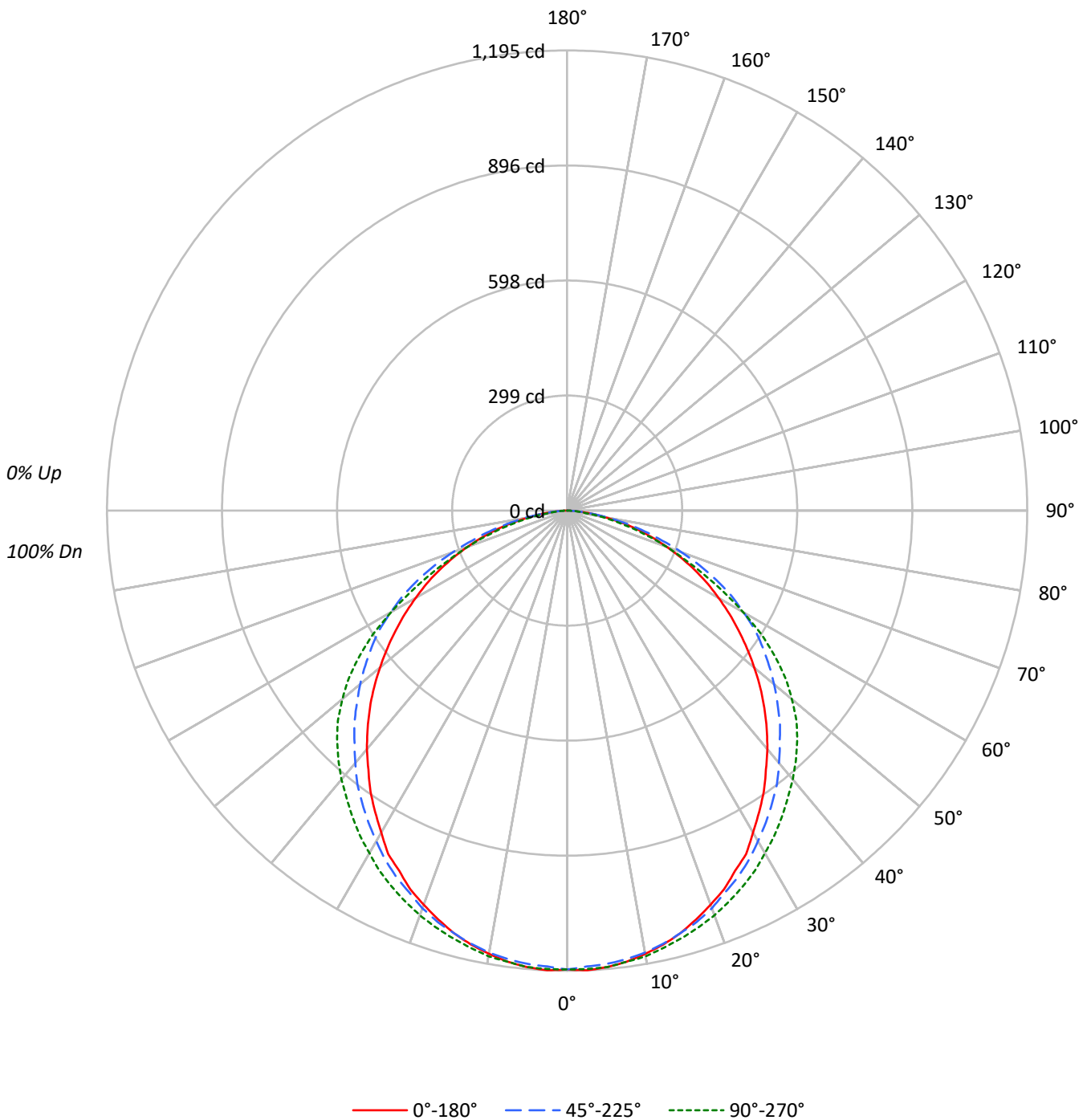
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3207	3207	3207
5°	3214	3192	3214
10°	3194	3185	3211
15°	3166	3166	3202
20°	3119	3147	3202
25°	3064	3118	3200
30°	2999	3081	3192
35°	2925	3048	3192
40°	2842	3008	3202
45°	2757	2974	3215
50°	2658	2937	3189
55°	2551	2910	3086
60°	2444	2848	2838
65°	2332	2726	2488
70°	2164	2485	2152
75°	1963	2167	1777
80°	1564	1715	1311
85°	1105	954	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.4
10°-20°	322.1	9.8
20°-30°	485.6	14.7
30°-40°	582.1	17.6
40°-50°	604.1	18.3
50°-60°	544.9	16.5
60°-70°	397.5	12.0
70°-80°	208.5	6.3
80°-90°	44.5	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°	920.5	27.9
0°-40°	1502.6	45.5
0°-60°	2651.5	80.3
0°-90°	3302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1190	1187	1182	1190	1190	113
15°	1136	1136	1136	1149	1149	320
25°	1032	1037	1050	1073	1078	476
35°	890	900	928	962	972	556
45°	724	739	781	829	845	558
55°	544	563	620	661	658	487
65°	366	387	428	412	391	362
75°	189	215	208	181	171	198
85°	36	44	31	26	24	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.6	1191.6	1191.6	1191.6	1191.6
2.5°	1194.9	1191.6	1185.1	1191.6	1191.6
5°	1190.0	1186.7	1181.8	1190.0	1190.0
7.5°	1181.8	1178.6	1175.3	1183.5	1181.8
10°	1168.8	1167.2	1165.6	1175.3	1175.3
12.5°	1154.2	1154.2	1152.5	1163.9	1162.3
15°	1136.3	1136.3	1136.3	1149.3	1149.3
17.5°	1113.5	1116.7	1120.0	1134.6	1134.6
20°	1089.0	1092.3	1098.8	1116.7	1118.3
22.5°	1064.6	1066.3	1072.8	1093.9	1098.8
25°	1032.1	1037.0	1050.0	1072.8	1077.6
27.5°	1006.0	1007.6	1022.3	1048.3	1054.9
30°	965.3	976.7	991.4	1020.7	1027.2
32.5°	927.9	937.7	960.4	991.4	1001.1
35°	890.4	900.2	927.9	962.1	971.8
37.5°	848.1	862.8	895.3	929.5	940.9
40°	809.0	822.1	856.3	898.6	911.6
42.5°	766.7	779.7	817.2	864.4	879.0
45°	724.4	739.1	781.4	828.6	844.9
47.5°	680.4	696.7	740.7	792.8	807.4
50°	634.9	652.8	701.6	755.3	761.8
52.5°	589.3	608.8	660.9	708.1	714.6
55°	543.7	563.2	620.2	660.9	657.7
57.5°	499.8	520.9	579.5	600.7	597.4
60°	454.2	477.0	529.1	538.8	527.4
62.5°	411.9	433.0	481.8	473.7	459.1
65°	366.3	387.4	428.1	411.9	390.7
67.5°	320.7	346.7	372.8	345.1	328.8
70°	275.1	304.4	315.8	288.1	273.5
72.5°	231.2	262.1	258.8	231.2	221.4
75°	188.8	214.9	208.4	180.7	170.9
77.5°	143.3	172.6	157.9	135.1	127.0
80°	100.9	127.0	110.7	91.2	84.6
82.5°	66.7	84.6	68.4	53.7	48.8
85°	35.8	44.0	30.9	26.0	24.4
87.5°	14.7	13.0	11.4	11.4	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)