

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: P258719

Luminaire Tested: **14CZ-LD5-35-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258719  
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-LD5-35-S-UNV-L83050-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3407.4 lumens  
Efficiency: N/A  
Efficacy: 124.6 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

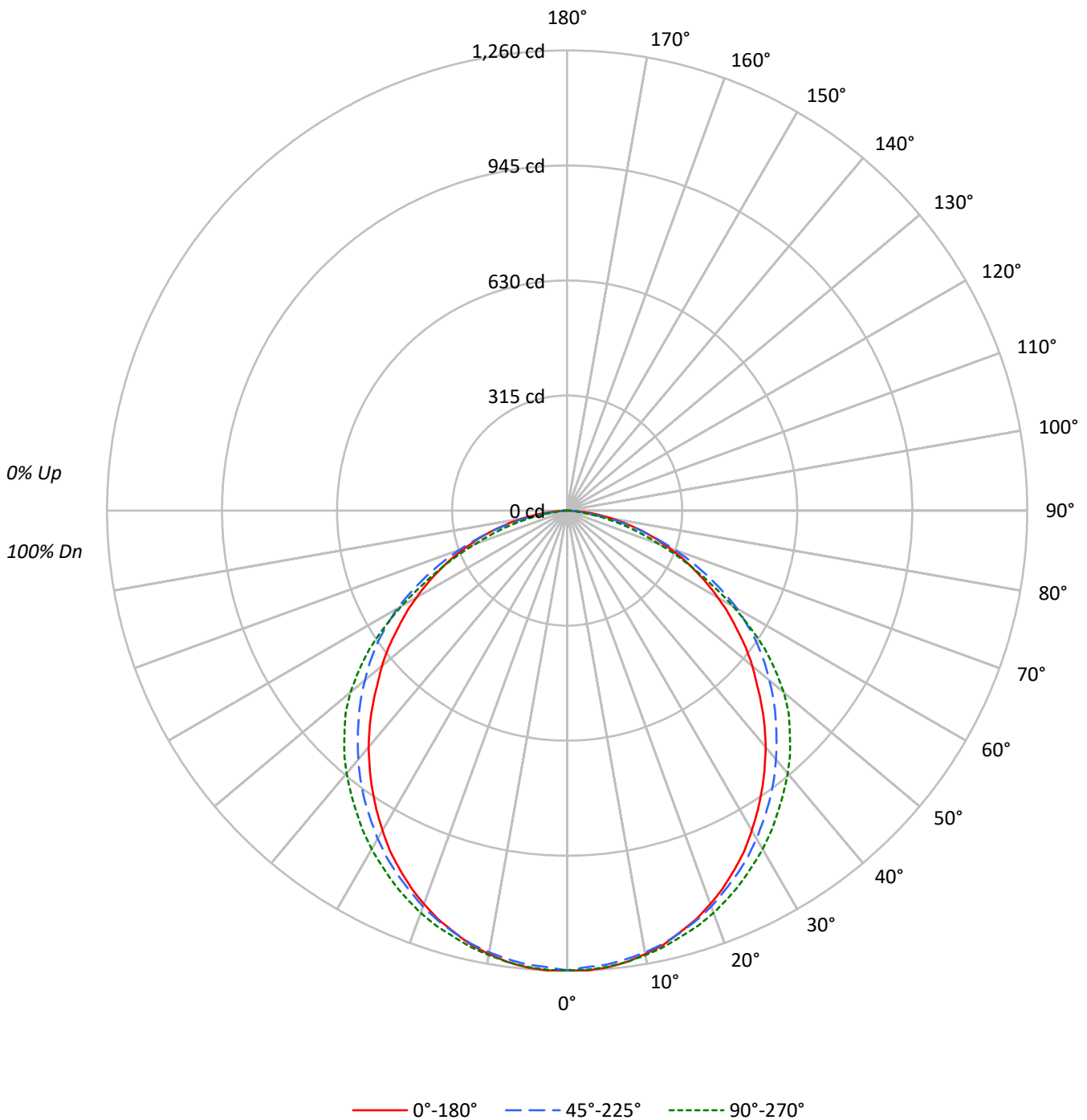
Input Watts (W): 27.342  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3387	3387	3387
5°	3392	3371	3388
10°	3369	3356	3377
15°	3329	3333	3363
20°	3283	3304	3357
25°	3219	3264	3341
30°	3142	3222	3326
35°	3057	3177	3307
40°	2971	3125	3301
45°	2866	3074	3282
50°	2771	3026	3242
55°	2664	2978	3099
60°	2566	2893	2827
65°	2456	2707	2485
70°	2318	2461	2102
75°	2163	2131	1736
80°	1906	1647	1271
85°	1501	797	704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	3.5
10°-20°	338.8	9.9
20°-30°	508.5	14.9
30°-40°	606.2	17.8
40°-50°	624.4	18.3
50°-60°	556.5	16.3
60°-70°	401.0	11.8
70°-80°	209.7	6.2
80°-90°	43.4	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°	966.2	28.4
0°-40°	1572.5	46.1
0°-60°	2753.4	80.8
0°-90°	3407.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1256	1253	1248	1256	1254	119
15°	1195	1196	1196	1209	1207	337
25°	1084	1090	1099	1120	1125	499
35°	931	943	967	999	1007	582
45°	753	770	808	853	862	581
55°	568	586	635	664	660	509
65°	386	399	425	405	390	382
75°	208	219	205	178	167	220
85°	49	42	26	23	23	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1258.7	1258.7	1258.7	1258.7	1258.7
2.5°	1260.2	1257.2	1251.1	1258.7	1258.7
5°	1255.7	1252.6	1248.1	1255.7	1254.1
7.5°	1246.5	1243.5	1239.0	1248.1	1246.5
10°	1232.9	1231.4	1228.3	1237.4	1235.9
12.5°	1217.7	1216.2	1214.7	1223.8	1223.8
15°	1194.9	1196.4	1196.4	1208.6	1207.1
17.5°	1173.7	1175.2	1176.7	1191.9	1191.9
20°	1146.3	1147.9	1153.9	1170.6	1172.1
22.5°	1117.5	1119.0	1126.6	1146.3	1149.4
25°	1084.1	1090.2	1099.3	1120.5	1125.1
27.5°	1050.7	1055.2	1070.4	1094.7	1097.7
30°	1011.2	1020.3	1037.0	1064.3	1070.4
32.5°	971.7	982.4	1002.1	1032.5	1040.1
35°	930.7	942.9	967.2	999.1	1006.6
37.5°	888.2	898.8	929.2	962.6	973.2
40°	845.7	856.3	889.7	927.7	939.8
42.5°	800.2	815.3	848.7	891.3	903.4
45°	753.1	769.8	807.7	853.3	862.4
47.5°	704.5	722.7	766.8	812.3	822.9
50°	662.0	678.7	722.7	766.8	774.3
52.5°	616.4	631.6	680.2	716.6	718.2
55°	567.9	586.1	634.7	663.5	660.5
57.5°	523.8	539.0	586.1	601.3	592.1
60°	476.8	490.4	537.5	539.0	525.3
62.5°	431.2	444.9	481.3	470.7	454.0
65°	385.7	399.3	425.1	405.4	390.2
67.5°	341.6	353.8	369.0	343.1	328.0
70°	294.6	311.3	312.8	282.4	267.2
72.5°	253.6	262.7	259.6	230.8	217.1
75°	208.0	218.6	205.0	177.6	167.0
77.5°	165.5	173.1	154.9	129.1	121.5
80°	123.0	127.5	106.3	86.5	82.0
82.5°	83.5	83.5	60.7	47.1	42.5
85°	48.6	42.5	25.8	22.8	22.8
87.5°	16.7	10.6	10.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)