

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: P#

Luminaire Tested: **14CZ-LD5-35-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)  
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-L835-CD1-U  
Description: CRUZE 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

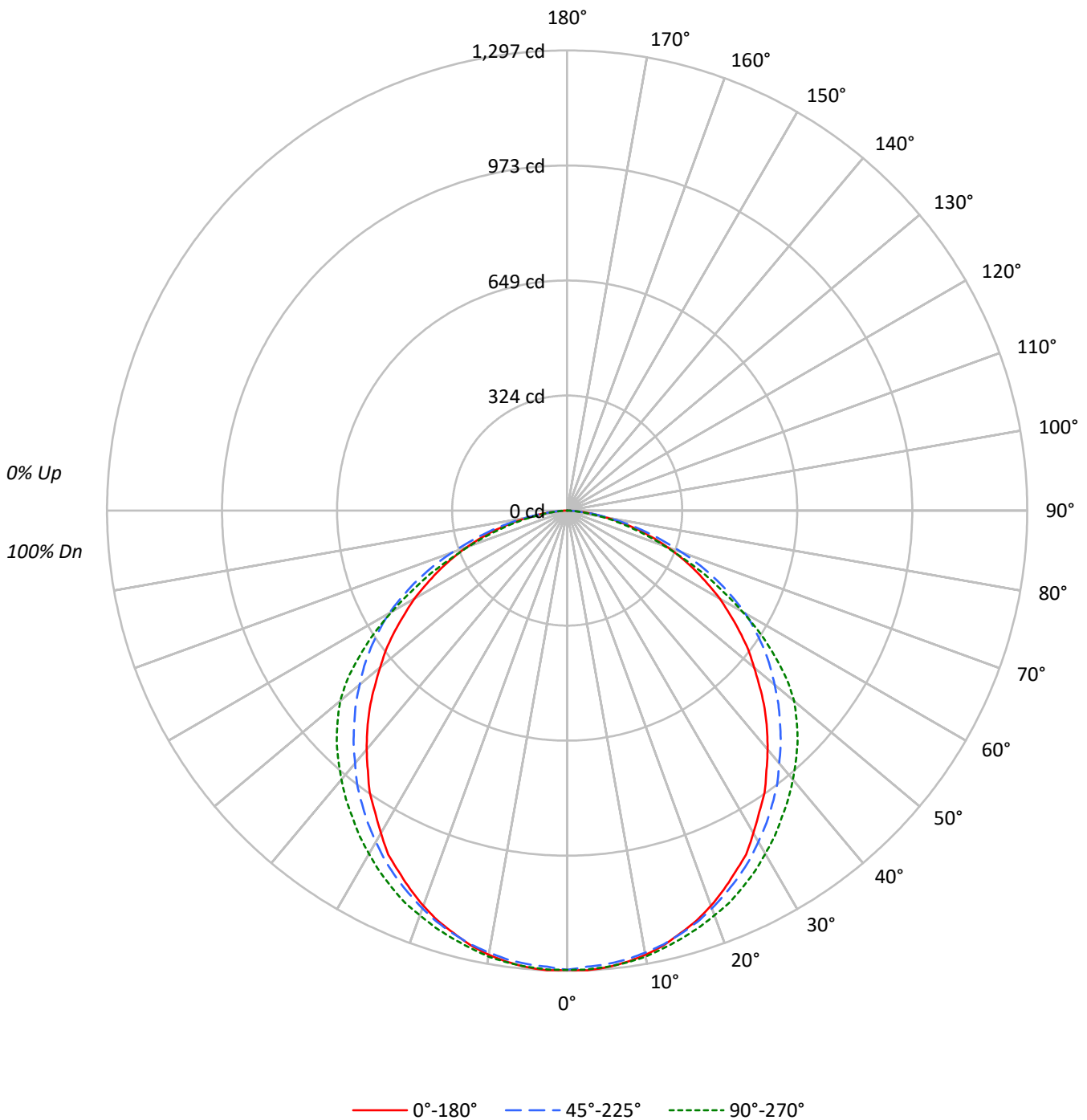
Lumens per Lamp: N/A  
Luminaire Lumens: 3590.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 31.48  
Input Voltage (V): NR  
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°	3484	3484	3484
5°	3482	3440	3457
10°	3459	3405	3428
15°	3414	3362	3387
20°	3364	3311	3354
25°	3296	3253	3322
30°	3216	3188	3281
35°	3132	3121	3239
40°	3025	3040	3208
45°	2923	2966	3178
50°	2795	2891	3125
55°	2687	2814	2932
60°	2564	2708	2619
65°	2402	2500	2250
70°	2212	2174	1812
75°	1951	1772	1411
80°	1502	1231	942
85°	949	527	359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	3.4
10°-20°	349.9	9.7
20°-30°	527.9	14.7
30°-40°	633.0	17.6
40°-50°	656.9	18.3
50°-60°	593.0	16.5
60°-70°	431.9	12.0
70°-80°	226.5	6.3
80°-90°	48.5	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°	1000.3	27.9
0°-40°	1633.3	45.5
0°-60°	2883.1	80.3
0°-90°	3590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3590.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1292	1289	1283	1292	1291	123
15°	1234	1234	1235	1249	1248	348
25°	1123	1129	1141	1166	1171	518
35°	970	980	1009	1046	1055	605
45°	787	804	848	901	919	606
55°	593	614	676	716	714	530
65°	398	422	467	446	429	393
75°	205	234	227	196	186	216
85°	40	47	34	27	25	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1297.1	1293.7	1286.8	1295.4	1294.6
5°	1292.0	1289.4	1283.4	1292.0	1291.1
7.5°	1283.4	1281.7	1276.5	1286.0	1285.1
10°	1271.4	1268.8	1265.4	1275.7	1276.5
12.5°	1255.1	1254.2	1252.5	1263.7	1262.8
15°	1233.6	1233.6	1235.3	1249.1	1248.2
17.5°	1212.2	1212.2	1216.5	1231.9	1232.8
20°	1185.5	1187.3	1193.3	1212.2	1213.9
22.5°	1155.5	1157.2	1167.5	1191.6	1195.8
25°	1122.9	1128.9	1140.9	1165.8	1171.0
27.5°	1092.8	1093.7	1111.7	1139.2	1146.1
30°	1049.9	1061.9	1078.2	1110.0	1116.9
32.5°	1007.8	1019.9	1044.8	1079.1	1088.5
35°	970.1	979.5	1008.7	1046.5	1055.1
37.5°	922.9	938.3	972.6	1012.1	1024.2
40°	879.1	892.8	929.7	974.4	989.8
42.5°	833.6	849.0	891.1	939.2	954.6
45°	787.2	804.4	848.2	901.4	918.6
47.5°	736.6	758.0	807.8	861.9	877.4
50°	687.6	710.0	763.2	819.8	835.3
52.5°	643.0	662.7	721.1	773.5	780.3
55°	593.2	613.8	675.6	716.0	714.2
57.5°	543.4	566.6	628.4	653.3	646.4
60°	497.1	518.5	580.3	585.5	570.9
62.5°	445.5	470.4	522.8	515.1	497.1
65°	397.5	421.5	467.0	445.5	429.2
67.5°	348.5	374.3	406.9	375.2	356.3
70°	300.5	331.4	343.4	309.0	293.6
72.5°	251.5	284.2	283.3	250.7	237.8
75°	205.2	234.4	226.6	195.7	186.3
77.5°	156.2	185.4	170.8	147.7	139.1
80°	110.7	138.2	119.3	101.3	95.3
82.5°	75.5	91.9	74.7	59.2	56.7
85°	39.5	47.2	34.3	26.6	24.9
87.5°	14.6	13.7	12.0	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)