

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-L830-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-L830-CD1-U  
Description: CRUZE 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

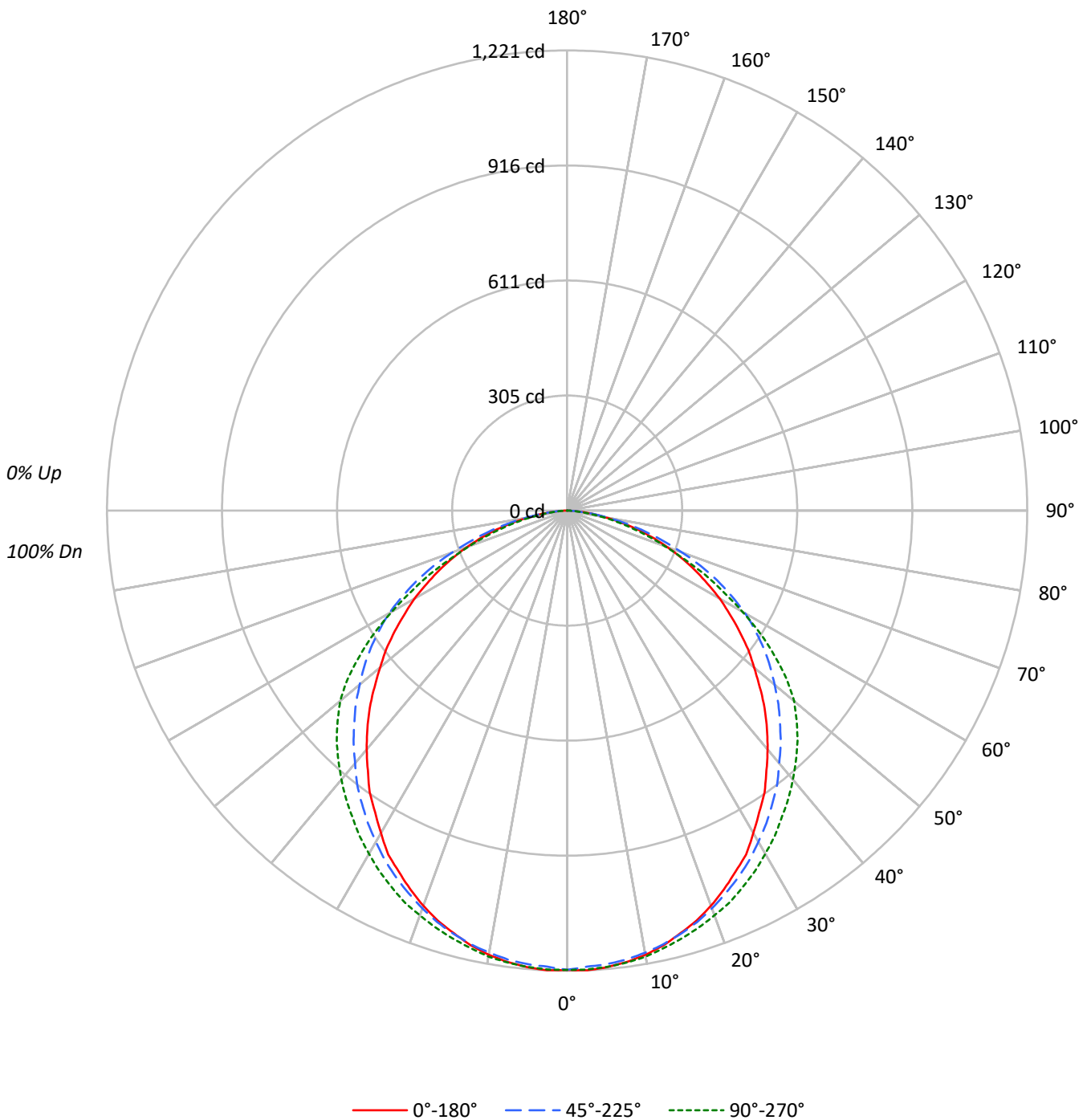
Lumens per Lamp: N/A  
Luminaire Lumens: 3379.4 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 31.48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3279	3279	3279
5°	3278	3238	3255
10°	3256	3205	3227
15°	3214	3165	3188
20°	3167	3117	3157
25°	3102	3063	3127
30°	3027	3001	3089
35°	2948	2937	3049
40°	2847	2862	3020
45°	2751	2792	2992
50°	2631	2721	2941
55°	2529	2649	2760
60°	2414	2549	2465
65°	2261	2353	2118
70°	2082	2047	1706
75°	1836	1668	1328
80°	1414	1159	887
85°	891	496	339



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.3	3.4
10°-20°	329.4	9.7
20°-30°	496.9	14.7
30°-40°	595.8	17.6
40°-50°	618.3	18.3
50°-60°	558.2	16.5
60°-70°	406.5	12.0
70°-80°	213.2	6.3
80°-90°	45.6	1.4
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°	941.6	27.9
0°-40°	1537.5	45.5
0°-60°	2714.0	80.3
0°-90°	3379.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1216	1214	1208	1216	1215	115
15°	1161	1161	1163	1176	1175	328
25°	1057	1063	1074	1097	1102	487
35°	913	922	950	985	993	569
45°	741	757	798	848	865	570
55°	558	578	636	674	672	499
65°	374	397	440	419	404	370
75°	193	221	213	184	175	203
85°	37	44	32	25	24	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1218.7	1218.7	1218.7	1218.7	1218.7
2.5°	1221.0	1217.8	1211.3	1219.4	1218.7
5°	1216.2	1213.8	1208.1	1216.2	1215.4
7.5°	1208.1	1206.5	1201.7	1210.6	1209.7
10°	1196.8	1194.3	1191.1	1200.9	1201.7
12.5°	1181.4	1180.7	1179.0	1189.5	1188.7
15°	1161.3	1161.3	1162.9	1175.8	1175.0
17.5°	1141.0	1141.0	1145.1	1159.7	1160.4
20°	1116.0	1117.6	1123.3	1141.0	1142.7
22.5°	1087.8	1089.4	1099.1	1121.7	1125.7
25°	1057.0	1062.7	1074.0	1097.4	1102.3
27.5°	1028.8	1029.5	1046.5	1072.4	1078.8
30°	988.3	999.6	1015.0	1044.9	1051.4
32.5°	948.8	960.1	983.4	1015.8	1024.7
35°	913.1	922.1	949.5	985.1	993.1
37.5°	868.7	883.3	915.6	952.8	964.1
40°	827.5	840.5	875.1	917.2	931.8
42.5°	784.7	799.2	838.8	884.1	898.6
45°	741.0	757.2	798.4	848.5	864.7
47.5°	693.4	713.5	760.5	811.3	825.9
50°	647.3	668.3	718.4	771.8	786.3
52.5°	605.2	623.9	678.8	728.1	734.5
55°	558.4	577.8	636.0	673.9	672.3
57.5°	511.6	533.3	591.6	614.9	608.5
60°	467.9	488.1	546.2	551.1	537.4
62.5°	419.4	442.9	492.1	484.9	467.9
65°	374.1	396.8	439.6	419.4	404.0
67.5°	328.1	352.4	383.0	353.1	335.3
70°	282.8	311.9	323.3	290.9	276.4
72.5°	236.7	267.5	266.7	236.0	223.8
75°	193.1	220.6	213.4	184.2	175.4
77.5°	147.1	174.5	160.8	139.0	130.9
80°	104.2	130.2	112.3	95.4	89.7
82.5°	71.2	86.4	70.3	55.8	53.3
85°	37.1	44.5	32.3	25.1	23.5
87.5°	13.8	12.9	11.3	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)