

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: P258695

Luminaire Tested: **14CZ-LD5-44-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258695  
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-LD5-44-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3417.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

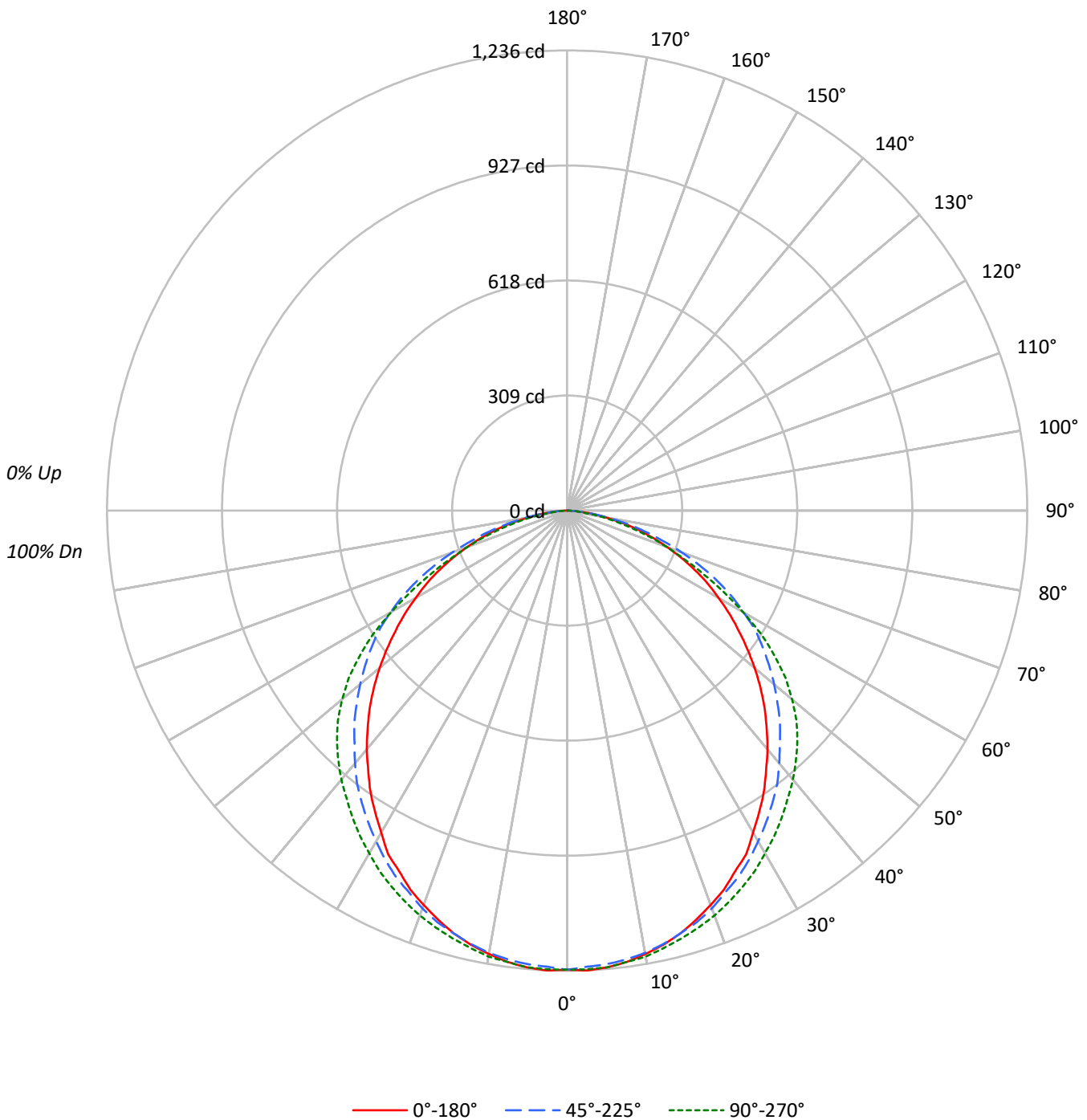
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3318	3318	3318
5°	3326	3304	3326
10°	3305	3296	3324
15°	3276	3276	3313
20°	3227	3256	3314
25°	3171	3226	3311
30°	3104	3188	3303
35°	3027	3154	3304
40°	2941	3113	3314
45°	2853	3077	3327
50°	2750	3039	3301
55°	2639	3011	3193
60°	2530	2947	2937
65°	2413	2821	2574
70°	2240	2571	2227
75°	2032	2242	1839
80°	1618	1776	1358
85°	1145	988	781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.7	3.4
10°-20°	333.3	9.8
20°-30°	502.5	14.7
30°-40°	602.4	17.6
40°-50°	625.1	18.3
50°-60°	563.8	16.5
60°-70°	411.3	12.0
70°-80°	215.8	6.3
80°-90°	46.0	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°	952.5	27.9
0°-40°	1554.9	45.5
0°-60°	2743.9	80.3
0°-90°	3417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1231	1228	1223	1231	1231	117
15°	1176	1176	1176	1189	1189	331
25°	1068	1073	1086	1110	1115	493
35°	922	932	960	996	1006	576
45°	750	765	809	857	874	578
55°	563	583	642	684	681	504
65°	379	401	443	426	404	375
75°	195	222	216	187	177	205
85°	37	46	32	27	25	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1233.1	1233.1	1233.1	1233.1	1233.1
2.5°	1236.5	1233.1	1226.4	1233.1	1233.1
5°	1231.4	1228.0	1223.0	1231.4	1231.4
7.5°	1223.0	1219.6	1216.3	1224.7	1223.0
10°	1209.5	1207.8	1206.1	1216.3	1216.3
12.5°	1194.4	1194.4	1192.7	1204.5	1202.8
15°	1175.8	1175.8	1175.8	1189.3	1189.3
17.5°	1152.2	1155.6	1159.0	1174.1	1174.1
20°	1127.0	1130.3	1137.1	1155.6	1157.3
22.5°	1101.7	1103.4	1110.1	1132.0	1137.1
25°	1068.0	1073.1	1086.5	1110.1	1115.2
27.5°	1041.1	1042.7	1057.9	1084.9	1091.6
30°	998.9	1010.7	1025.9	1056.2	1063.0
32.5°	960.2	970.3	993.9	1025.9	1036.0
35°	921.5	931.6	960.2	995.6	1005.7
37.5°	877.7	892.8	926.5	961.9	973.7
40°	837.2	850.7	886.1	929.9	943.4
42.5°	793.4	806.9	845.6	894.5	909.7
45°	749.6	764.8	808.6	857.4	874.3
47.5°	704.1	721.0	766.5	820.4	835.5
50°	657.0	675.5	726.0	781.6	788.4
52.5°	609.8	630.0	683.9	732.8	739.5
55°	562.6	582.9	641.8	683.9	680.6
57.5°	517.2	539.1	599.7	621.6	618.2
60°	470.0	493.6	547.5	557.6	545.8
62.5°	426.2	448.1	498.6	490.2	475.0
65°	379.0	400.9	443.0	426.2	404.3
67.5°	331.9	358.8	385.8	357.1	340.3
70°	284.7	315.0	326.8	298.2	283.0
72.5°	239.2	271.2	267.8	239.2	229.1
75°	195.4	222.4	215.6	187.0	176.9
77.5°	148.2	178.6	163.4	139.8	131.4
80°	104.4	131.4	114.6	94.3	87.6
82.5°	69.1	87.6	70.8	55.6	50.5
85°	37.1	45.5	32.0	27.0	25.3
87.5°	15.2	13.5	11.8	11.8	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)