

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: P259463

Luminaire Tested: **22CZ-LD5-34-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-34-S-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3216.0 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

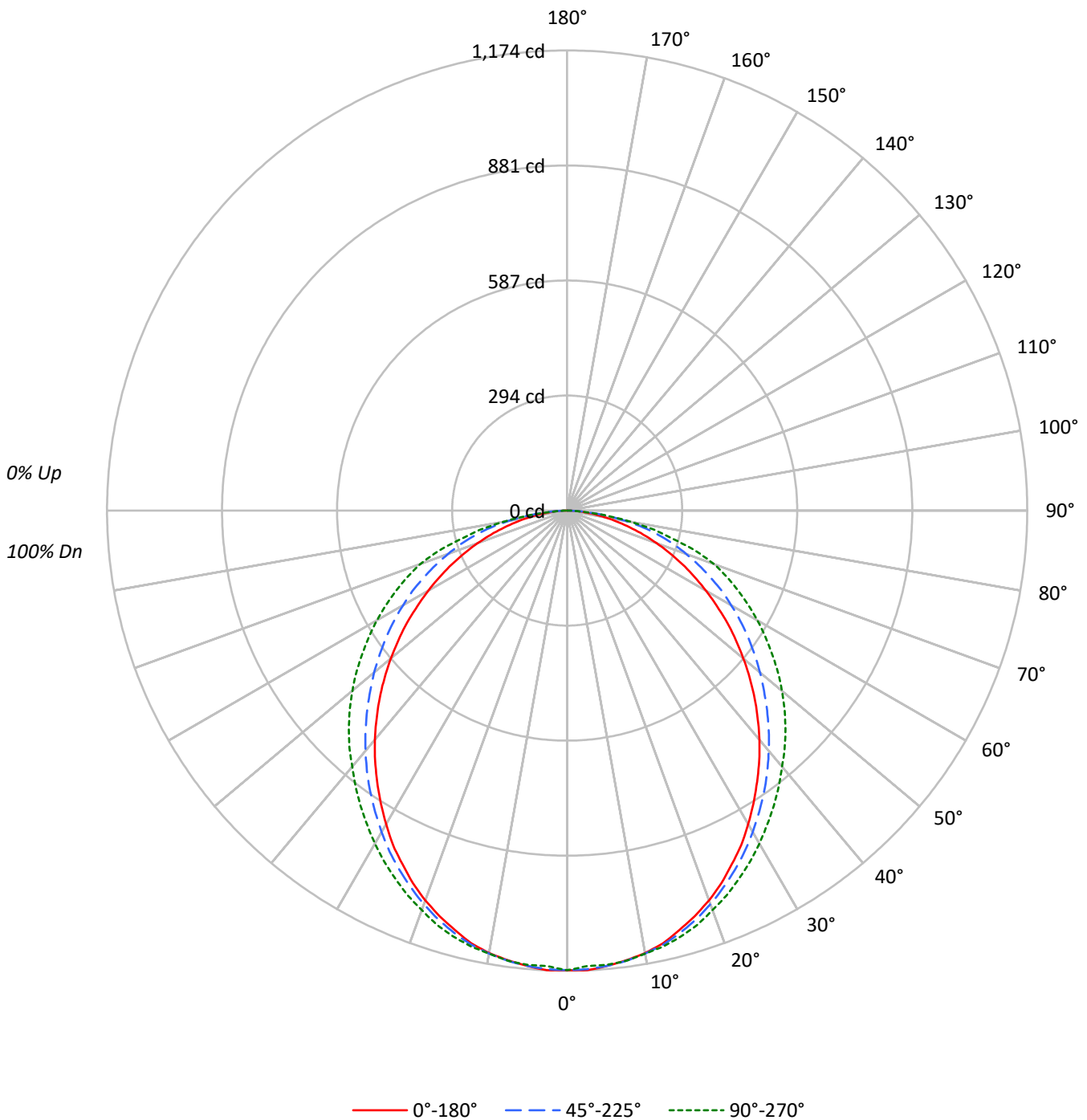
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3155	3155	3155
5°	3150	3150	3142
10°	3132	3136	3136
15°	3085	3107	3133
20°	3030	3061	3105
25°	2954	3004	3078
30°	2870	2942	3048
35°	2776	2877	3019
40°	2681	2811	2995
45°	2575	2745	2998
50°	2457	2690	2994
55°	2341	2645	2993
60°	2203	2602	3018
65°	2066	2567	3059
70°	1908	2540	3135
75°	1719	2521	2907
80°	1508	2346	2537
85°	1241	1766	1575



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	3.4
10°-20°	314.5	9.8
20°-30°	467.1	14.5
30°-40°	549.9	17.1
40°-50°	560.6	17.4
50°-60°	505.6	15.7
60°-70°	398.2	12.4
70°-80°	245.6	7.6
80°-90°	63.8	2.0
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°	892.4	27.7
0°-40°	1442.2	44.8
0°-60°	2508.4	78.0
0°-90°	3216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1166	1168	1166	1165	1163	111
15°	1108	1112	1115	1121	1124	312
25°	995	1001	1012	1029	1036	458
35°	845	854	876	904	919	529
45°	677	687	721	765	788	522
55°	499	516	564	615	638	445
65°	324	348	403	454	480	321
75°	165	193	242	270	280	176
85°	40	51	57	54	51	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1172.4	1172.4	1172.4	1172.4	1172.4
2.5°	1174.0	1174.0	1170.9	1167.8	1163.2
5°	1166.2	1167.8	1166.2	1164.7	1163.2
7.5°	1157.0	1158.5	1158.5	1158.5	1158.5
10°	1146.2	1147.7	1147.7	1147.7	1147.7
12.5°	1130.7	1132.3	1133.8	1135.3	1138.4
15°	1107.5	1112.2	1115.3	1121.4	1124.5
17.5°	1084.4	1089.0	1093.6	1101.4	1107.5
20°	1058.1	1061.2	1068.9	1078.2	1084.4
22.5°	1028.8	1033.4	1041.1	1053.5	1062.7
25°	994.8	1001.0	1011.8	1028.8	1036.5
27.5°	962.3	967.0	980.9	999.4	1010.2
30°	923.7	929.9	946.9	970.1	980.9
32.5°	885.1	892.8	911.4	937.6	950.0
35°	844.9	854.2	875.8	903.6	919.1
37.5°	804.8	814.1	838.8	869.7	886.7
40°	763.1	772.3	800.2	834.1	852.7
42.5°	719.8	730.6	761.5	800.2	821.8
45°	676.6	687.4	721.4	764.6	787.8
47.5°	631.8	644.1	681.2	729.1	752.3
50°	587.0	600.9	642.6	692.0	715.2
52.5°	542.2	557.6	602.4	653.4	678.1
55°	498.9	515.9	563.8	614.8	638.0
57.5°	452.6	472.7	523.7	573.1	599.3
60°	409.3	431.0	483.5	532.9	560.7
62.5°	366.1	389.3	444.9	494.3	520.6
65°	324.4	347.6	403.2	454.1	480.4
67.5°	282.7	308.9	363.0	414.0	440.2
70°	242.5	270.3	322.8	372.3	398.5
72.5°	203.9	231.7	284.2	330.6	346.0
75°	165.3	193.1	242.5	270.3	279.6
77.5°	129.8	156.0	199.3	216.3	228.6
80°	97.3	120.5	151.4	162.2	163.7
82.5°	66.4	86.5	105.0	106.6	105.0
85°	40.2	51.0	57.2	54.1	51.0
87.5°	18.5	20.1	18.5	12.4	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)