

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: P259300

Luminaire Tested: **22CZ-LD5-34-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-34-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3538.0 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

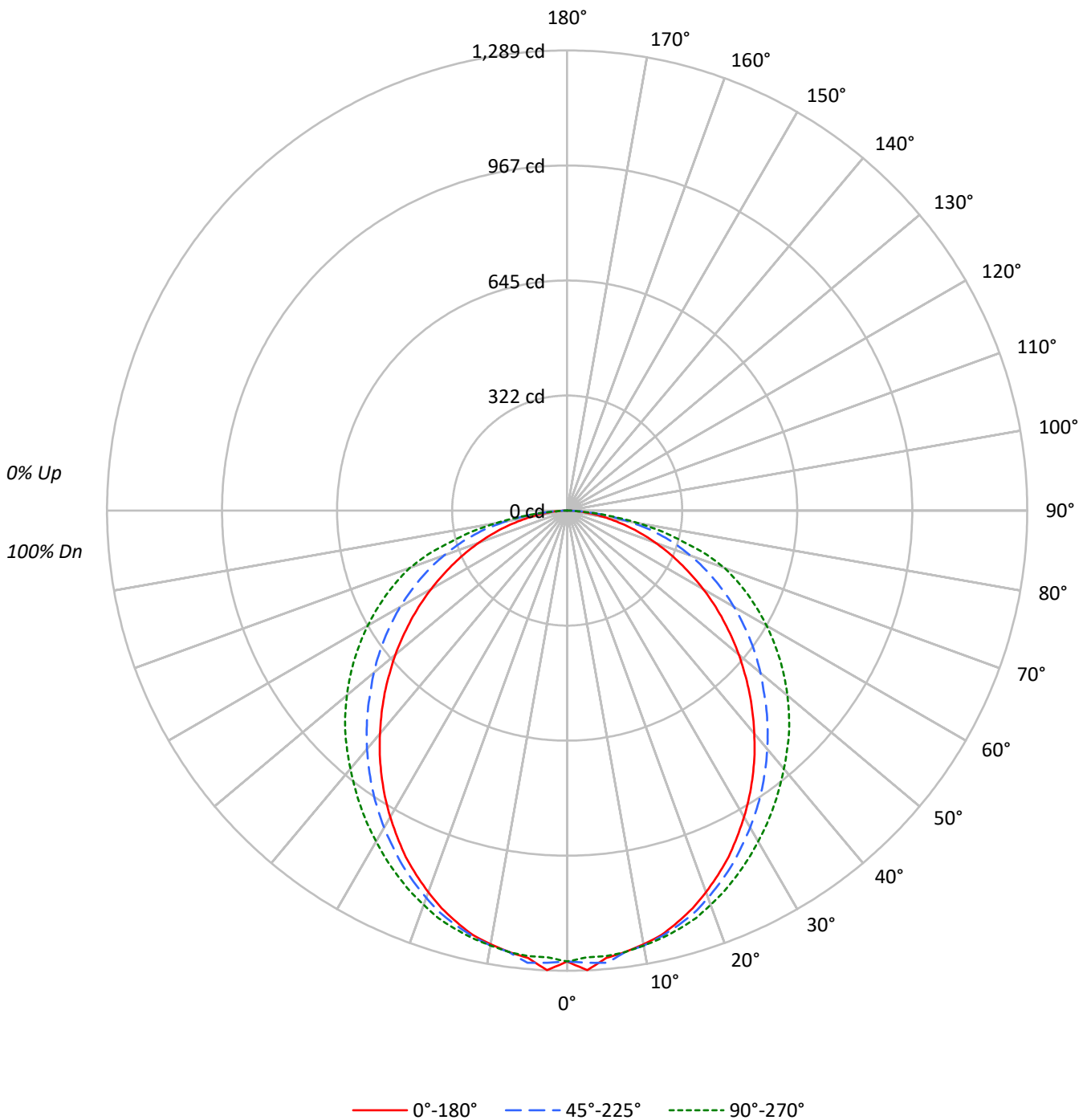
Input Watts (W): 26.226  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	3398	3398	3398
5°	3397	3434	3383
10°	3371	3380	3380
15°	3326	3350	3379
20°	3257	3306	3365
25°	3177	3249	3346
30°	3079	3186	3325
35°	2979	3125	3318
40°	2865	3064	3318
45°	2750	3005	3346
50°	2629	2960	3371
55°	2502	2930	3415
60°	2370	2907	3472
65°	2224	2892	3561
70°	2071	2884	3682
75°	1879	2880	3488
80°	1626	2665	3093
85°	1380	2019	1967



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	3.4
10°-20°	339.3	9.6
20°-30°	504.7	14.3
30°-40°	596.9	16.9
40°-50°	613.5	17.3
50°-60°	560.6	15.8
60°-70°	448.5	12.7
70°-80°	281.5	8.0
80°-90°	73.3	2.1
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°	963.7	27.2
0°-40°	1560.6	44.1
0°-60°	2734.8	77.3
0°-90°	3538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1263	1263	1263	1263	1263	
5°	1258	1258	1271	1263	1252	120
15°	1194	1196	1203	1210	1213	336
25°	1070	1077	1094	1113	1127	492
35°	907	919	951	988	1010	567
45°	723	742	790	848	879	557
55°	533	559	624	693	728	477
65°	349	380	454	523	559	347
75°	181	215	277	318	336	192
85°	45	57	65	64	64	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1262.8	1262.8	1262.8	1262.8	1262.8
2.5°	1288.6	1283.5	1268.0	1257.7	1252.5
5°	1257.7	1257.7	1271.4	1262.8	1252.5
7.5°	1247.3	1247.3	1247.3	1273.2	1247.3
10°	1233.6	1235.3	1237.0	1247.3	1237.0
12.5°	1218.1	1218.1	1221.5	1225.0	1226.7
15°	1194.0	1195.7	1202.6	1209.5	1212.9
17.5°	1168.2	1173.4	1182.0	1190.6	1197.5
20°	1137.2	1144.1	1154.4	1168.2	1175.1
22.5°	1104.5	1111.4	1125.2	1140.7	1152.7
25°	1070.1	1077.0	1094.2	1113.1	1126.9
27.5°	1030.6	1039.2	1059.8	1085.6	1099.4
30°	991.0	1001.3	1025.4	1054.7	1070.1
32.5°	949.7	961.7	989.3	1022.0	1040.9
35°	906.7	918.7	951.4	987.6	1009.9
37.5°	862.0	875.7	911.9	953.1	977.2
40°	815.5	831.0	872.3	917.0	944.5
42.5°	769.1	786.3	831.0	884.3	911.9
45°	722.6	741.5	789.7	848.2	879.2
47.5°	674.4	696.8	746.7	812.1	843.0
50°	628.0	650.3	707.1	774.2	805.2
52.5°	579.8	605.6	665.8	734.6	767.3
55°	533.3	559.2	624.5	693.4	727.8
57.5°	486.9	512.7	581.5	652.1	686.5
60°	440.4	468.0	540.2	609.0	645.2
62.5°	394.0	423.2	497.2	567.8	602.2
65°	349.3	380.2	454.2	523.0	559.2
67.5°	306.2	338.9	411.2	478.3	514.4
70°	263.2	295.9	366.5	431.8	468.0
72.5°	221.9	254.6	323.5	381.9	409.5
75°	180.7	215.1	277.0	318.3	335.5
77.5°	141.1	175.5	228.8	256.4	275.3
80°	104.9	134.2	172.0	192.7	199.6
82.5°	72.3	96.3	120.4	125.6	129.0
85°	44.7	56.8	65.4	63.7	63.7
87.5°	20.6	22.4	18.9	13.8	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)