

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: P259298

Luminaire Tested: **22CZ-LD5-34-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259298  
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-4000K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3430.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 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

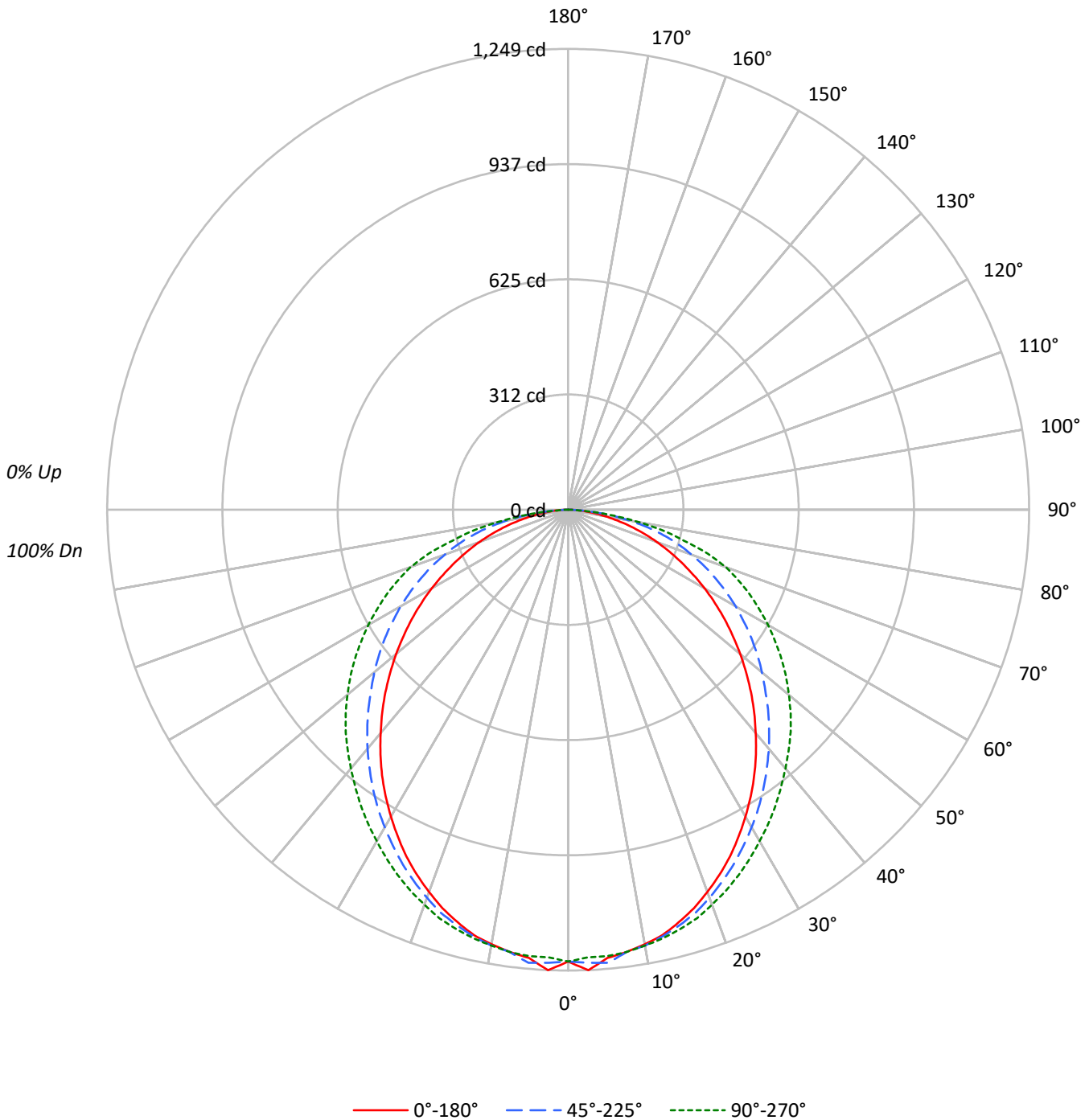
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3295	3295	3295
5°	3294	3330	3280
10°	3268	3277	3277
15°	3225	3248	3276
20°	3157	3205	3262
25°	3081	3150	3244
30°	2985	3089	3224
35°	2888	3030	3216
40°	2777	2971	3217
45°	2666	2914	3244
50°	2549	2870	3268
55°	2426	2841	3310
60°	2298	2819	3366
65°	2156	2804	3452
70°	2008	2795	3570
75°	1821	2792	3382
80°	1576	2585	2999
85°	1340	1958	1905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	3.4
10°-20°	328.9	9.6
20°-30°	489.3	14.3
30°-40°	578.7	16.9
40°-50°	594.8	17.3
50°-60°	543.5	15.8
60°-70°	434.8	12.7
70°-80°	272.9	8.0
80°-90°	71.1	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°	934.3	27.2
0°-40°	1513.0	44.1
0°-60°	2651.3	77.3
0°-90°	3430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3430.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1219	1219	1233	1224	1214	116
15°	1158	1159	1166	1173	1176	326
25°	1038	1044	1061	1079	1092	477
35°	879	891	922	957	979	549
45°	700	719	766	822	852	540
55°	517	542	606	672	706	463
65°	339	369	440	507	542	336
75°	175	208	268	309	325	186
85°	43	55	63	62	62	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1224.3	1224.3	1224.3	1224.3	1224.3
2.5°	1249.3	1244.3	1229.3	1219.3	1214.3
5°	1219.3	1219.3	1232.6	1224.3	1214.3
7.5°	1209.3	1209.3	1209.3	1234.3	1209.3
10°	1195.9	1197.6	1199.3	1209.3	1199.3
12.5°	1180.9	1180.9	1184.3	1187.6	1189.3
15°	1157.6	1159.2	1165.9	1172.6	1175.9
17.5°	1132.5	1137.5	1145.9	1154.2	1160.9
20°	1102.5	1109.2	1119.2	1132.5	1139.2
22.5°	1070.8	1077.5	1090.8	1105.9	1117.5
25°	1037.5	1044.1	1060.8	1079.2	1092.5
27.5°	999.1	1007.4	1027.5	1052.5	1065.8
30°	960.7	970.8	994.1	1022.5	1037.5
32.5°	920.7	932.4	959.1	990.8	1009.1
35°	879.0	890.7	922.4	957.4	979.1
37.5°	835.6	849.0	884.0	924.0	947.4
40°	790.6	805.6	845.7	889.0	915.7
42.5°	745.6	762.3	805.6	857.3	884.0
45°	700.5	718.9	765.6	822.3	852.3
47.5°	653.8	675.5	723.9	787.3	817.3
50°	608.8	630.5	685.5	750.6	780.6
52.5°	562.1	587.1	645.5	712.2	743.9
55°	517.1	542.1	605.5	672.2	705.5
57.5°	472.0	497.1	563.8	632.2	665.5
60°	427.0	453.7	523.7	590.5	625.5
62.5°	382.0	410.3	482.0	550.4	583.8
65°	338.6	368.6	440.3	507.1	542.1
67.5°	296.9	328.6	398.6	463.7	498.7
70°	255.2	286.9	355.3	418.7	453.7
72.5°	215.2	246.9	313.6	370.3	397.0
75°	175.1	208.5	268.5	308.6	325.3
77.5°	136.8	170.1	221.8	248.5	266.9
80°	101.7	130.1	166.8	186.8	193.5
82.5°	70.1	93.4	116.8	121.8	125.1
85°	43.4	55.0	63.4	61.7	61.7
87.5°	20.0	21.7	18.3	13.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)