

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: P259470

Luminaire Tested: **22CZ-LD5-34-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259470  
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-5700K  
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3654.0 lumens  
Efficiency: N/A  
Efficacy: 138.3 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

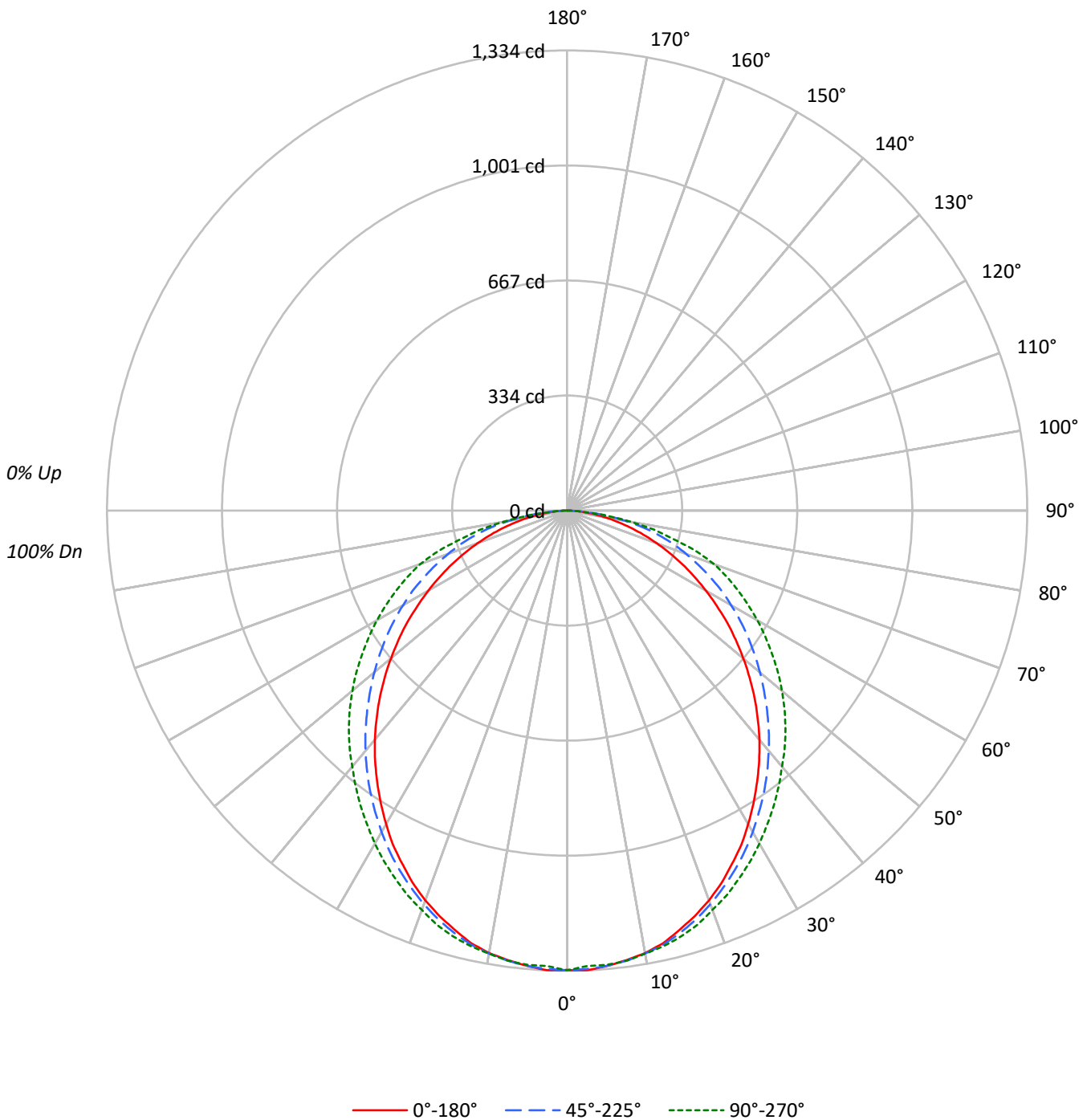
Input Watts (W): 26.412  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3585	3585	3585
5°	3579	3579	3570
10°	3559	3563	3563
15°	3506	3530	3560
20°	3443	3478	3528
25°	3356	3413	3497
30°	3261	3343	3463
35°	3154	3269	3431
40°	3046	3194	3403
45°	2925	3119	3406
50°	2792	3057	3402
55°	2660	3005	3400
60°	2503	2956	3429
65°	2347	2917	3475
70°	2168	2886	3563
75°	1953	2864	3303
80°	1714	2665	2882
85°	1408	2004	1788



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	3.4
10°-20°	357.4	9.8
20°-30°	530.8	14.5
30°-40°	624.7	17.1
40°-50°	636.9	17.4
50°-60°	574.4	15.7
60°-70°	452.5	12.4
70°-80°	279.1	7.6
80°-90°	72.4	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°	1013.9	27.7
0°-40°	1638.6	44.8
0°-60°	2850.0	78.0
0°-90°	3654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3654.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1325	1327	1325	1323	1322	126
15°	1258	1264	1267	1274	1278	355
25°	1130	1137	1150	1169	1178	521
35°	960	971	995	1027	1044	601
45°	769	781	820	869	895	593
55°	567	586	641	698	725	506
65°	369	395	458	516	546	365
75°	188	219	276	307	318	200
85°	46	58	65	61	58	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1332.1	1332.1	1332.1	1332.1	1332.1
2.5°	1333.9	1333.9	1330.3	1326.8	1321.6
5°	1325.1	1326.8	1325.1	1323.3	1321.6
7.5°	1314.5	1316.3	1316.3	1316.3	1316.3
10°	1302.3	1304.0	1304.0	1304.0	1304.0
12.5°	1284.7	1286.5	1288.2	1290.0	1293.5
15°	1258.4	1263.7	1267.2	1274.2	1277.7
17.5°	1232.1	1237.3	1242.6	1251.4	1258.4
20°	1202.2	1205.7	1214.5	1225.0	1232.1
22.5°	1168.9	1174.1	1182.9	1197.0	1207.5
25°	1130.3	1137.3	1149.6	1168.9	1177.7
27.5°	1093.4	1098.7	1114.5	1135.5	1147.8
30°	1049.5	1056.6	1075.9	1102.2	1114.5
32.5°	1005.7	1014.4	1035.5	1065.3	1079.4
35°	960.0	970.6	995.1	1026.7	1044.3
37.5°	914.4	924.9	953.0	988.1	1007.4
40°	867.0	877.5	909.1	947.7	968.8
42.5°	817.9	830.1	865.3	909.1	933.7
45°	768.7	781.0	819.6	868.8	895.1
47.5°	717.8	731.9	774.0	828.4	854.7
50°	666.9	682.7	730.1	786.3	812.6
52.5°	616.0	633.6	684.5	742.4	770.5
55°	566.9	586.2	640.6	698.5	724.8
57.5°	514.2	537.1	595.0	651.1	681.0
60°	465.1	489.7	549.3	605.5	637.1
62.5°	416.0	442.3	505.5	561.6	591.5
65°	368.6	394.9	458.1	516.0	545.8
67.5°	321.2	351.0	412.4	470.4	500.2
70°	275.5	307.1	366.8	423.0	452.8
72.5°	231.7	263.3	322.9	375.6	393.1
75°	187.8	219.4	275.5	307.1	317.7
77.5°	147.4	177.3	226.4	245.7	259.8
80°	110.6	136.9	172.0	184.3	186.0
82.5°	75.5	98.3	119.3	121.1	119.3
85°	45.6	57.9	64.9	61.4	57.9
87.5°	21.1	22.8	21.1	14.0	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)