

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: P258779

Luminaire Tested: **14CZ-LD5-25-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-25-S-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2609.0 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

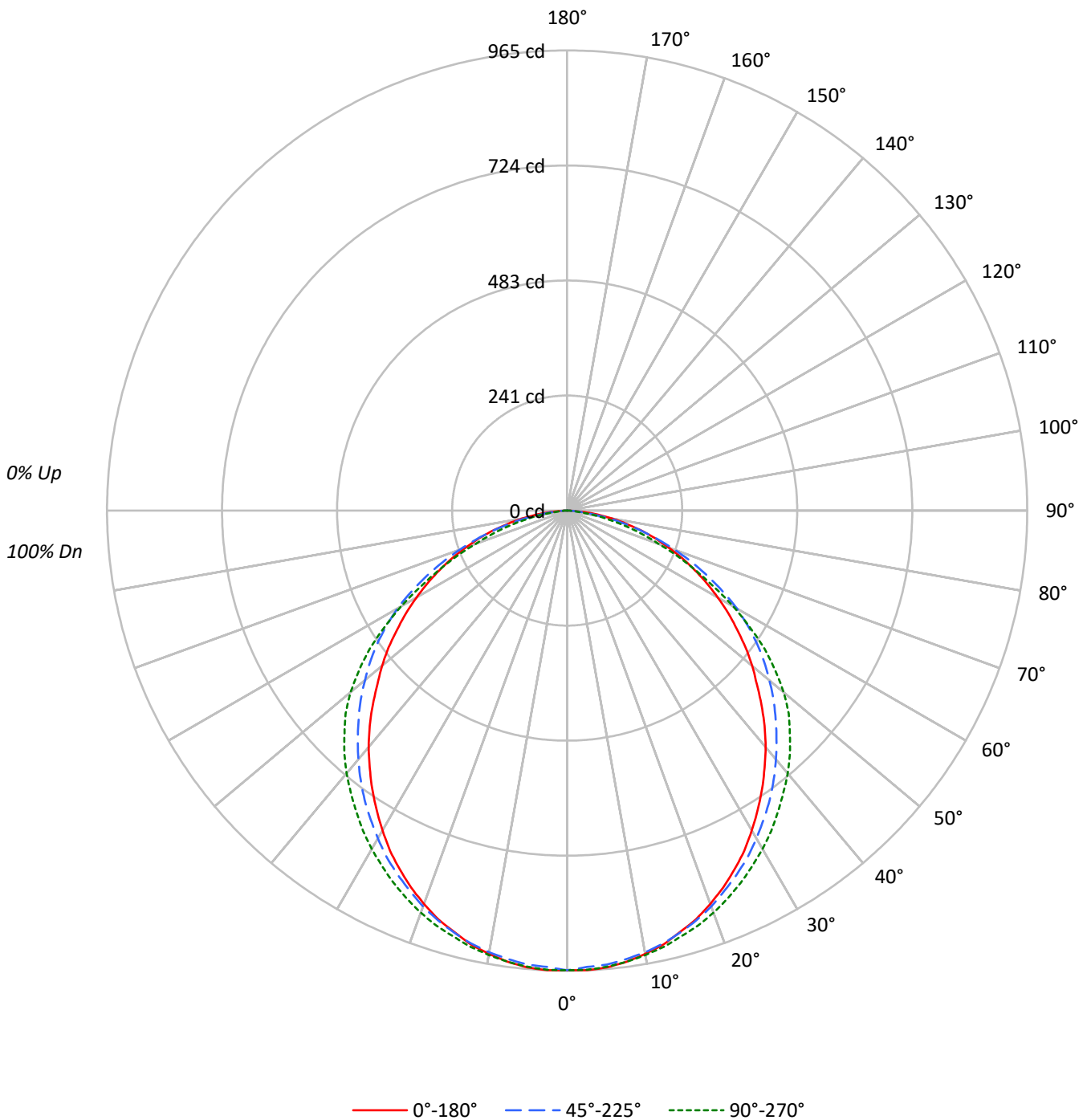
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	2594	2594	2594
5°	2597	2581	2594
10°	2579	2570	2586
15°	2549	2552	2575
20°	2513	2530	2570
25°	2465	2499	2558
30°	2406	2467	2547
35°	2341	2433	2532
40°	2275	2393	2528
45°	2194	2354	2513
50°	2122	2317	2482
55°	2040	2280	2373
60°	1964	2215	2165
65°	1880	2073	1903
70°	1774	1884	1610
75°	1656	1631	1330
80°	1460	1261	973
85°	1149	611	537



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	3.5
10°-20°	259.4	9.9
20°-30°	389.3	14.9
30°-40°	464.2	17.8
40°-50°	478.1	18.3
50°-60°	426.1	16.3
60°-70°	307.0	11.8
70°-80°	160.6	6.2
80°-90°	33.2	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°	739.8	28.4
0°-40°	1204.0	46.1
0°-60°	2108.2	80.8
0°-90°	2609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	961	959	956	961	960	91
15°	915	916	916	925	924	258
25°	830	835	842	858	862	382
35°	713	722	741	765	771	446
45°	577	589	618	653	660	445
55°	435	449	486	508	506	390
65°	295	306	326	310	299	293
75°	159	167	157	136	128	169
85°	37	33	20	17	17	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	963.8	963.8	963.8	963.8	963.8
2.5°	964.9	962.6	958.0	963.8	963.8
5°	961.4	959.1	955.6	961.4	960.3
7.5°	954.5	952.1	948.7	955.6	954.5
10°	944.0	942.8	940.5	947.5	946.3
12.5°	932.4	931.2	930.1	937.0	937.0
15°	914.9	916.1	916.1	925.4	924.2
17.5°	898.7	899.8	901.0	912.6	912.6
20°	877.7	878.9	883.5	896.3	897.5
22.5°	855.6	856.8	862.6	877.7	880.1
25°	830.1	834.7	841.7	858.0	861.5
27.5°	804.5	808.0	819.6	838.2	840.5
30°	774.3	781.2	794.0	815.0	819.6
32.5°	744.0	752.2	767.3	790.5	796.4
35°	712.7	722.0	740.6	765.0	770.8
37.5°	680.1	688.2	711.5	737.1	745.2
40°	647.5	655.7	681.3	710.3	719.6
42.5°	612.7	624.3	649.9	682.4	691.7
45°	576.6	589.4	618.5	653.4	660.3
47.5°	539.4	553.4	587.1	622.0	630.1
50°	506.9	519.7	553.4	587.1	592.9
52.5°	472.0	483.6	520.8	548.7	549.9
55°	434.8	448.7	486.0	508.0	505.7
57.5°	401.1	412.7	448.7	460.4	453.4
60°	365.0	375.5	411.5	412.7	402.2
62.5°	330.2	340.6	368.5	360.4	347.6
65°	295.3	305.8	325.5	310.4	298.8
67.5°	261.6	270.9	282.5	262.7	251.1
70°	225.5	238.3	239.5	216.2	204.6
72.5°	194.1	201.1	198.8	176.7	166.2
75°	159.3	167.4	156.9	136.0	127.9
77.5°	126.7	132.5	118.6	98.8	93.0
80°	94.2	97.7	81.4	66.3	62.8
82.5°	63.9	63.9	46.5	36.0	32.6
85°	37.2	32.6	19.8	17.4	17.4
87.5°	12.8	8.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)