

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: P275531

Luminaire Tested: **14CZ2-35-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275531  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2983.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

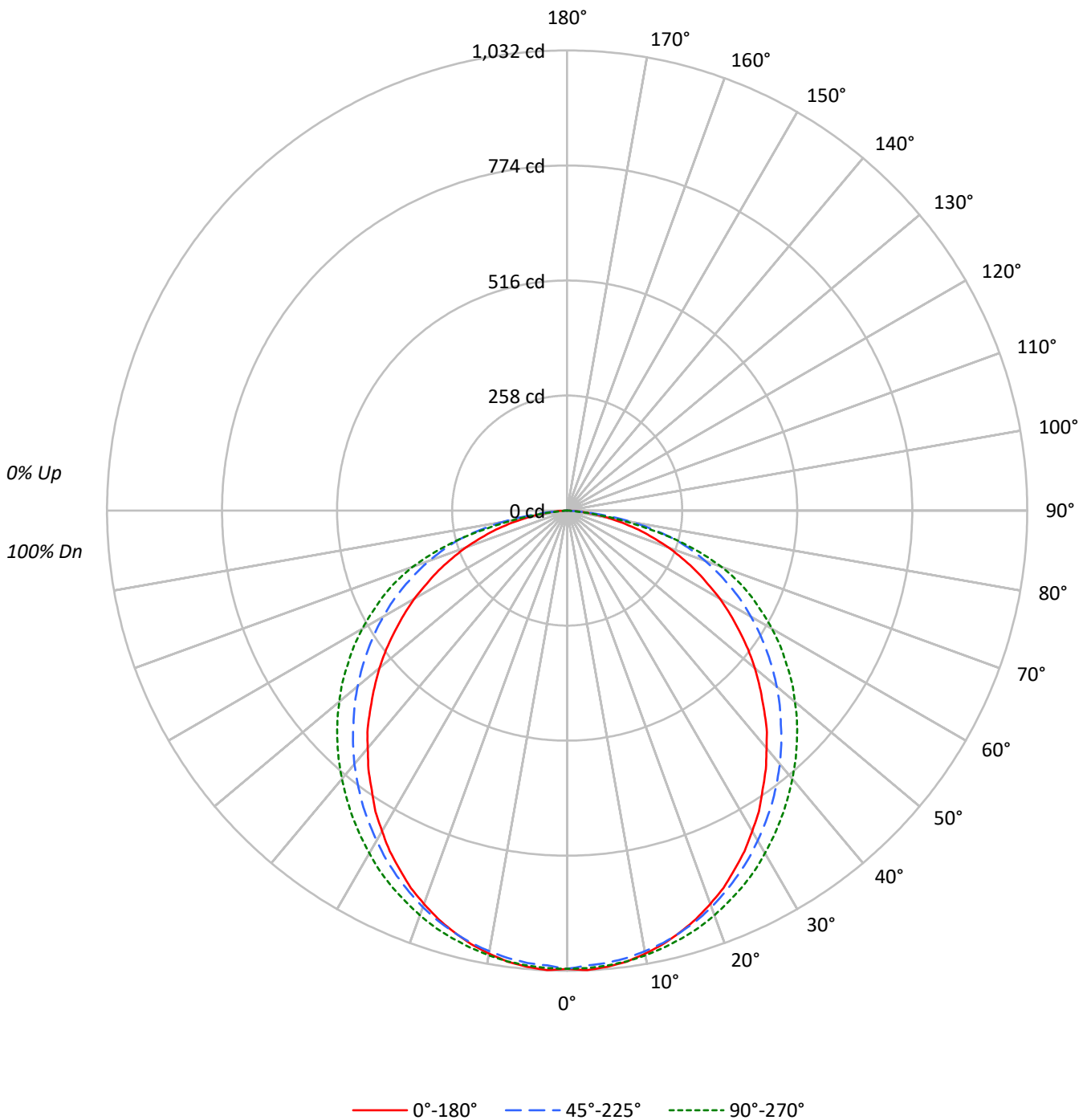
Input Watts (W): 27.528  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	2766	2766	2766
5°	2774	2751	2767
10°	2757	2743	2768
15°	2728	2730	2767
20°	2688	2710	2766
25°	2637	2684	2763
30°	2579	2656	2757
35°	2511	2633	2756
40°	2444	2608	2759
45°	2369	2579	2774
50°	2300	2568	2793
55°	2213	2559	2818
60°	2133	2563	2857
65°	2024	2571	2901
70°	1899	2590	2899
75°	1722	2614	2621
80°	1412	2258	1866
85°	1047	1068	432



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	3.3
10°-20°	277.8	9.3
20°-30°	418.5	14.0
30°-40°	502.2	16.8
40°-50°	523.4	17.5
50°-60°	484.5	16.2
60°-70°	391.5	13.1
70°-80°	238.7	8.0
80°-90°	49.3	1.7
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°	793.5	26.6
0°-40°	1295.6	43.4
0°-60°	2303.6	77.2
0°-90°	2983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2983.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1027	1024	1018	1026	1024	97
15°	979	980	980	993	993	276
25°	888	893	904	927	930	409
35°	764	776	802	831	839	479
45°	623	641	678	716	729	481
55°	472	496	545	588	601	423
65°	318	349	404	444	456	314
75°	166	202	251	255	252	174
85°	34	51	35	19	14	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1027.7	1027.7	1027.7	1027.7	1027.7
2.5°	1031.6	1028.3	1021.0	1028.3	1027.0
5°	1027.0	1024.3	1018.3	1025.7	1024.3
7.5°	1020.3	1017.7	1012.4	1021.0	1019.7
10°	1009.0	1007.7	1003.7	1013.7	1013.0
12.5°	995.7	995.1	993.1	1004.4	1003.7
15°	979.1	979.8	979.8	993.1	993.1
17.5°	960.5	961.8	964.5	979.1	981.1
20°	938.5	941.2	946.5	963.1	965.8
22.5°	915.9	917.9	925.9	945.8	948.5
25°	888.0	893.3	903.9	926.6	930.5
27.5°	861.4	866.0	880.7	903.9	910.6
30°	830.1	837.4	854.7	880.0	887.3
32.5°	800.2	808.2	828.1	857.4	864.0
35°	764.3	776.2	801.5	830.8	838.8
37.5°	731.7	743.0	771.6	803.5	812.8
40°	695.7	709.7	742.3	776.2	785.5
42.5°	662.5	675.8	711.0	745.6	758.3
45°	622.6	641.2	677.8	715.7	729.0
47.5°	586.0	604.6	646.5	687.1	699.1
50°	549.4	569.4	613.3	655.2	667.1
52.5°	511.5	532.8	580.0	621.9	635.9
55°	471.6	496.2	545.4	588.0	600.6
57.5°	433.7	459.0	511.5	554.7	567.4
60°	396.4	422.4	476.2	517.5	530.8
62.5°	355.2	385.8	441.7	482.2	492.2
65°	317.9	349.2	403.7	444.3	455.6
67.5°	278.7	312.6	367.2	404.4	415.1
70°	241.4	276.7	329.2	363.8	368.5
72.5°	201.5	237.5	290.7	312.6	312.6
75°	165.6	202.2	251.4	255.4	252.1
77.5°	126.4	167.0	198.9	190.9	182.9
80°	91.1	131.0	145.7	131.0	120.4
82.5°	61.2	95.1	87.8	69.8	61.9
85°	33.9	50.6	34.6	19.3	14.0
87.5°	12.6	11.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)