

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: P275641

Luminaire Tested: **14CZ2-29-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-S-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3054.0 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

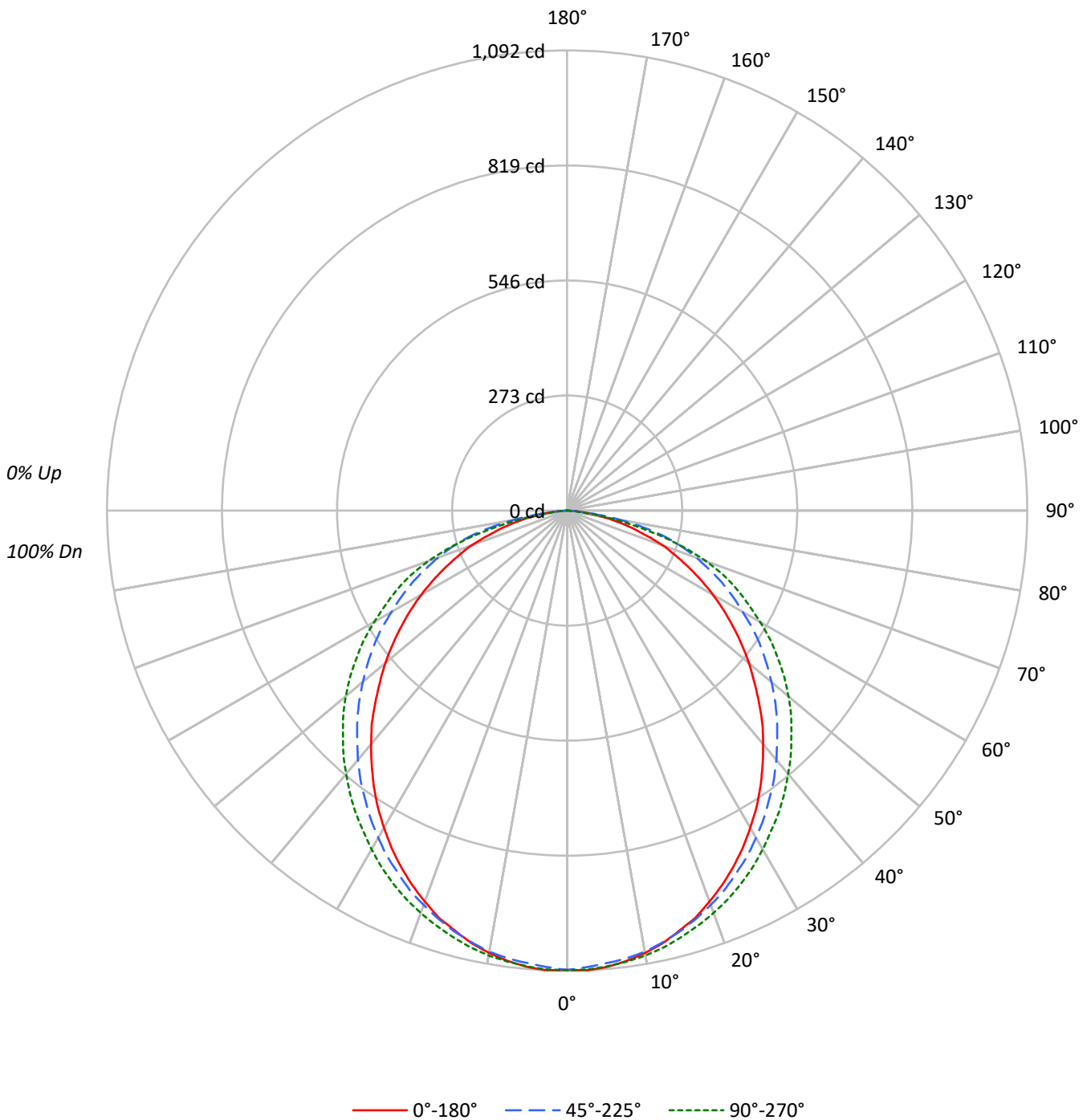
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	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	55	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	35	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	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2934	2934	2934
5°	2937	2912	2933
10°	2913	2905	2930
15°	2873	2881	2919
20°	2827	2853	2909
25°	2770	2819	2900
30°	2701	2785	2884
35°	2626	2746	2875
40°	2543	2713	2867
45°	2449	2680	2864
50°	2358	2650	2871
55°	2259	2629	2863
60°	2152	2591	2844
65°	2025	2584	2844
70°	1906	2562	2764
75°	1653	2504	2361
80°	1337	2018	1573
85°	889	701	466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	3.4
10°-20°	292.9	9.6
20°-30°	439.4	14.4
30°-40°	524.2	17.2
40°-50°	541.9	17.7
50°-60°	494.8	16.2
60°-70°	389.4	12.7
70°-80°	226.7	7.4
80°-90°	41.8	1.4
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°	835.3	27.4
0°-40°	1359.5	44.5
0°-60°	2396.2	78.5
0°-90°	3054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3054.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1087	1084	1078	1087	1086	103
15°	1031	1033	1034	1048	1048	291
25°	933	937	949	972	977	429
35°	800	810	836	868	875	500
45°	644	665	704	744	753	497
55°	482	507	560	601	610	431
65°	318	351	406	438	447	316
75°	159	197	241	236	227	169
85°	29	41	23	18	15	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1090.2	1090.2	1090.2	1090.2	1090.2
2.5°	1091.7	1088.7	1084.2	1091.7	1090.2
5°	1087.2	1084.2	1078.1	1087.2	1085.7
7.5°	1078.1	1075.1	1072.1	1081.1	1079.6
10°	1066.0	1064.5	1063.0	1073.6	1072.1
12.5°	1050.9	1050.9	1049.3	1061.5	1061.5
15°	1031.2	1032.7	1034.2	1047.8	1047.8
17.5°	1013.0	1011.5	1016.0	1031.2	1032.7
20°	987.3	990.3	996.3	1014.5	1016.0
22.5°	961.5	964.5	975.1	993.3	997.9
25°	932.8	937.3	949.4	972.1	976.7
27.5°	902.5	908.5	925.2	949.4	953.9
30°	869.2	878.2	896.4	923.7	928.2
32.5°	835.8	844.9	867.6	894.9	901.0
35°	799.5	810.1	835.8	867.6	875.2
37.5°	761.6	775.3	805.6	837.4	846.4
40°	723.8	738.9	772.2	805.6	816.2
42.5°	685.9	701.1	737.4	775.3	785.9
45°	643.5	664.7	704.1	743.5	752.6
47.5°	602.7	625.4	669.3	708.6	720.8
50°	563.3	586.0	632.9	673.8	685.9
52.5°	522.4	546.6	596.6	639.0	649.6
55°	481.5	507.3	560.3	601.1	610.2
57.5°	440.6	467.9	522.4	561.8	572.4
60°	399.8	428.5	481.5	520.9	528.5
62.5°	358.9	389.2	443.7	478.5	486.1
65°	318.0	351.3	405.8	437.6	446.7
67.5°	278.6	311.9	364.9	395.2	402.8
70°	242.3	272.6	325.6	348.3	351.3
72.5°	196.8	234.7	286.2	298.3	290.7
75°	159.0	196.8	240.8	236.2	227.1
77.5°	121.1	159.0	187.8	172.6	160.5
80°	86.3	124.2	130.2	107.5	101.5
82.5°	56.0	86.3	72.7	56.0	45.4
85°	28.8	40.9	22.7	18.2	15.1
87.5°	9.1	6.1	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)