

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: P275639

Luminaire Tested: **14CZ2-29-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275639  
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-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3016.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

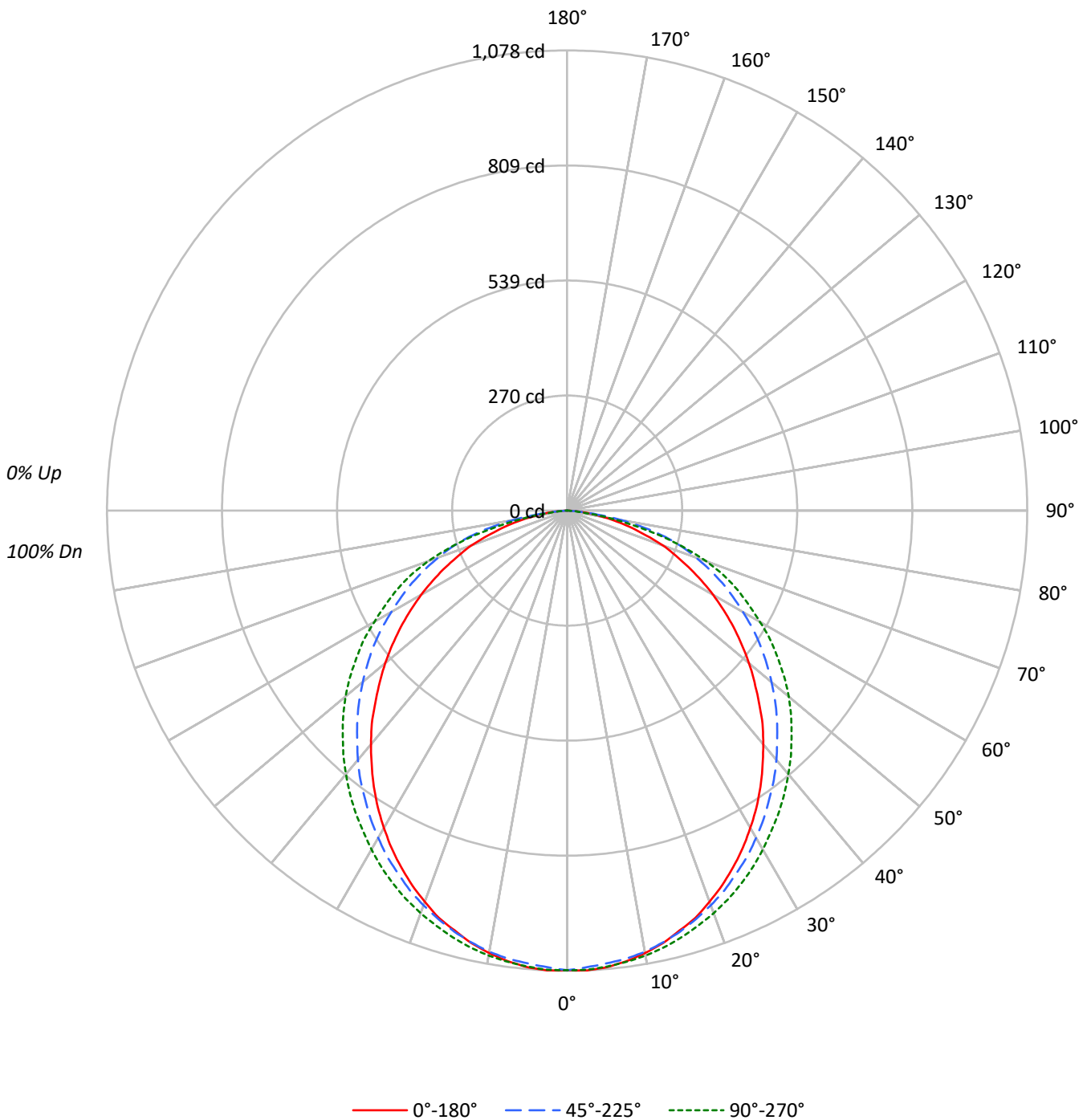
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

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

	0°	45°	90°
0°	2897	2897	2897
5°	2900	2876	2896
10°	2876	2868	2893
15°	2837	2845	2883
20°	2792	2818	2873
25°	2735	2784	2864
30°	2667	2751	2848
35°	2594	2712	2839
40°	2511	2679	2831
45°	2418	2646	2828
50°	2329	2617	2836
55°	2231	2596	2827
60°	2125	2559	2809
65°	1999	2552	2809
70°	1883	2530	2729
75°	1632	2472	2332
80°	1320	1993	1553
85°	877	692	463



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	3.4
10°-20°	289.3	9.6
20°-30°	434.0	14.4
30°-40°	517.7	17.2
40°-50°	535.2	17.7
50°-60°	488.6	16.2
60°-70°	384.5	12.7
70°-80°	223.8	7.4
80°-90°	41.2	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°	824.9	27.4
0°-40°	1342.6	44.5
0°-60°	2366.4	78.5
0°-90°	3016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1074	1071	1065	1074	1072	102
15°	1018	1020	1021	1035	1035	287
25°	921	926	938	960	964	424
35°	790	800	825	857	864	494
45°	636	656	695	734	743	491
55°	476	501	553	594	603	425
65°	314	347	401	432	441	312
75°	157	194	238	233	224	167
85°	28	40	22	18	15	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1076.7	1076.7	1076.7	1076.7	1076.7
2.5°	1078.2	1075.2	1070.7	1078.2	1076.7
5°	1073.7	1070.7	1064.7	1073.7	1072.2
7.5°	1064.7	1061.7	1058.7	1067.7	1066.2
10°	1052.7	1051.2	1049.7	1060.2	1058.7
12.5°	1037.8	1037.8	1036.3	1048.3	1048.3
15°	1018.3	1019.8	1021.3	1034.8	1034.8
17.5°	1000.4	998.9	1003.4	1018.3	1019.8
20°	975.0	978.0	983.9	1001.9	1003.4
22.5°	949.6	952.5	963.0	981.0	985.4
25°	921.1	925.6	937.6	960.0	964.5
27.5°	891.2	897.2	913.7	937.6	942.1
30°	858.3	867.3	885.3	912.2	916.7
32.5°	825.4	834.4	856.8	883.8	889.7
35°	789.6	800.0	825.4	856.8	864.3
37.5°	752.2	765.6	795.5	826.9	835.9
40°	714.8	729.7	762.6	795.5	806.0
42.5°	677.4	692.4	728.2	765.6	776.1
45°	635.5	656.5	695.3	734.2	743.2
47.5°	595.2	617.6	661.0	699.8	711.8
50°	556.3	578.7	625.1	665.4	677.4
52.5°	515.9	539.8	589.2	631.0	641.5
55°	475.5	500.9	553.3	593.7	602.6
57.5°	435.2	462.1	515.9	554.8	565.2
60°	394.8	423.2	475.5	514.4	521.9
62.5°	354.4	384.3	438.1	472.5	480.0
65°	314.0	346.9	400.8	432.2	441.1
67.5°	275.1	308.0	360.4	390.3	397.8
70°	239.3	269.2	321.5	343.9	346.9
72.5°	194.4	231.8	282.6	294.6	287.1
75°	157.0	194.4	237.8	233.3	224.3
77.5°	119.6	157.0	185.4	170.5	158.5
80°	85.2	122.6	128.6	106.2	100.2
82.5°	55.3	85.2	71.8	55.3	44.9
85°	28.4	40.4	22.4	17.9	15.0
87.5°	9.0	6.0	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)