

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: P275637

Luminaire Tested: **14CZ2-29-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275637
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2924.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

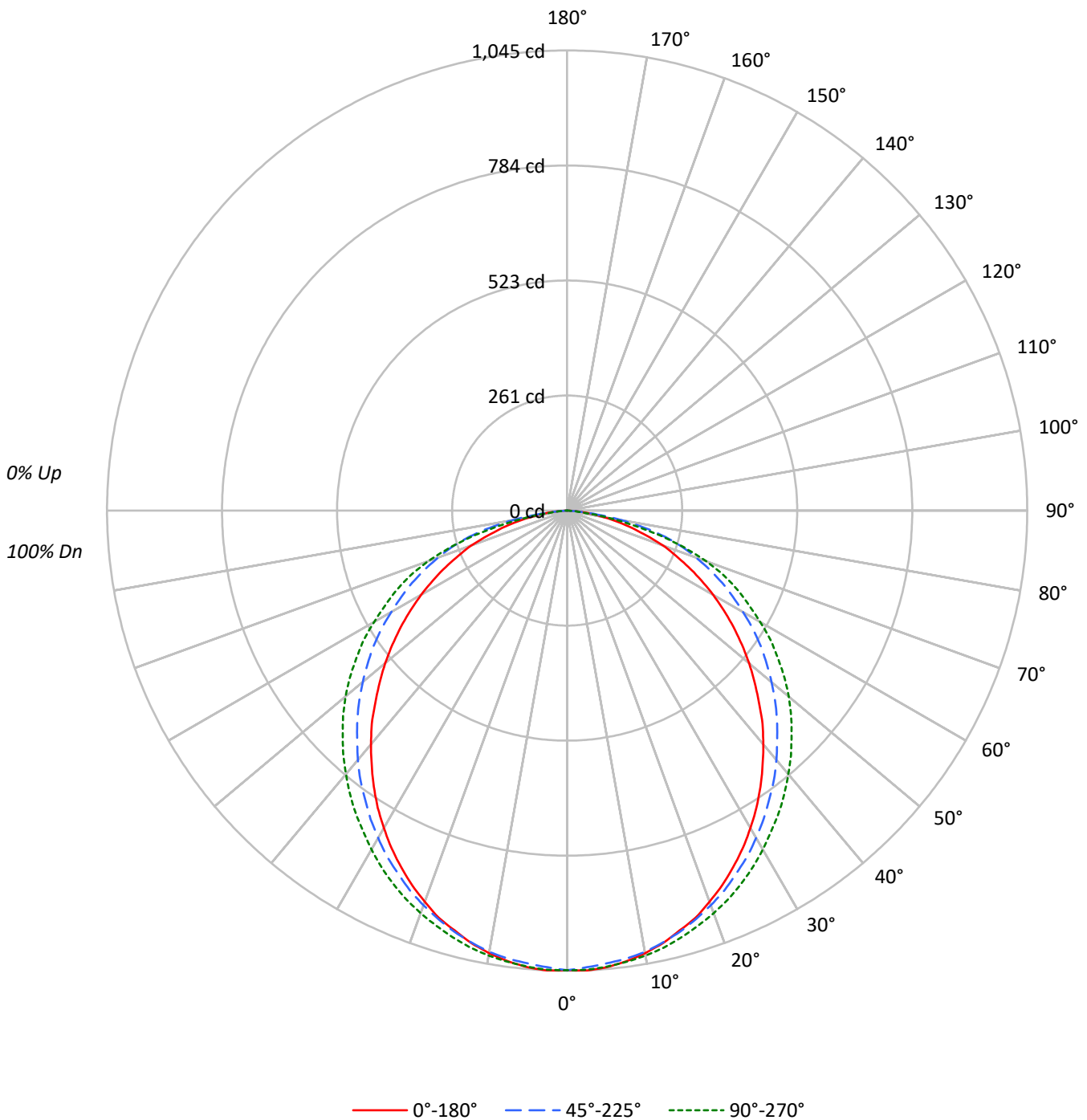
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2809	2809	2809
5°	2812	2788	2808
10°	2789	2781	2805
15°	2751	2759	2795
20°	2707	2732	2786
25°	2651	2699	2776
30°	2586	2667	2761
35°	2515	2629	2753
40°	2434	2597	2745
45°	2345	2565	2742
50°	2258	2537	2749
55°	2163	2517	2741
60°	2060	2481	2723
65°	1938	2474	2723
70°	1825	2452	2646
75°	1582	2397	2261
80°	1280	1932	1505
85°	849	670	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.4
10°-20°	280.5	9.6
20°-30°	420.7	14.4
30°-40°	501.9	17.2
40°-50°	518.8	17.7
50°-60°	473.7	16.2
60°-70°	372.8	12.7
70°-80°	217.0	7.4
80°-90°	40.0	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°	799.8	27.4
0°-40°	1301.7	44.5
0°-60°	2294.2	78.5
0°-90°	2924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1041	1038	1032	1041	1040	99
15°	987	989	990	1003	1003	279
25°	893	897	909	931	935	411
35°	766	776	800	831	838	478
45°	616	636	674	712	720	476
55°	461	486	536	576	584	412
65°	304	336	388	419	428	302
75°	152	188	230	226	218	162
85°	28	39	22	17	14	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1045.3	1042.4	1038.0	1045.3	1043.8
5°	1040.9	1038.0	1032.2	1040.9	1039.5
7.5°	1032.2	1029.3	1026.4	1035.1	1033.7
10°	1020.6	1019.2	1017.7	1027.9	1026.4
12.5°	1006.1	1006.1	1004.7	1016.3	1016.3
15°	987.3	988.7	990.2	1003.2	1003.2
17.5°	969.9	968.4	972.8	987.3	988.7
20°	945.2	948.1	953.9	971.3	972.8
22.5°	920.6	923.5	933.6	951.0	955.4
25°	893.0	897.4	909.0	930.7	935.1
27.5°	864.1	869.8	885.8	909.0	913.3
30°	832.2	840.9	858.3	884.3	888.7
32.5°	800.3	809.0	830.7	856.8	862.6
35°	765.5	775.6	800.3	830.7	838.0
37.5°	729.2	742.3	771.3	801.7	810.4
40°	693.0	707.5	739.4	771.3	781.4
42.5°	656.7	671.2	706.0	742.3	752.4
45°	616.1	636.4	674.1	711.8	720.5
47.5°	577.0	598.7	640.8	678.5	690.1
50°	539.3	561.1	606.0	645.1	656.7
52.5°	500.2	523.4	571.2	611.8	621.9
55°	461.0	485.7	536.4	575.6	584.2
57.5°	421.9	448.0	500.2	537.9	548.0
60°	382.7	410.3	461.0	498.7	506.0
62.5°	343.6	372.6	424.8	458.1	465.4
65°	304.4	336.3	388.5	419.0	427.7
67.5°	266.8	298.6	349.4	378.4	385.6
70°	232.0	261.0	311.7	333.4	336.3
72.5°	188.5	224.7	274.0	285.6	278.4
75°	152.2	188.5	230.5	226.2	217.5
77.5°	116.0	152.2	179.8	165.3	153.7
80°	82.6	118.9	124.7	102.9	97.1
82.5°	53.6	82.6	69.6	53.6	43.5
85°	27.5	39.1	21.7	17.4	14.5
87.5°	8.7	5.8	2.9	2.9	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)