

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: P275638

Luminaire Tested: **14CZ2-29-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275638
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2976.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

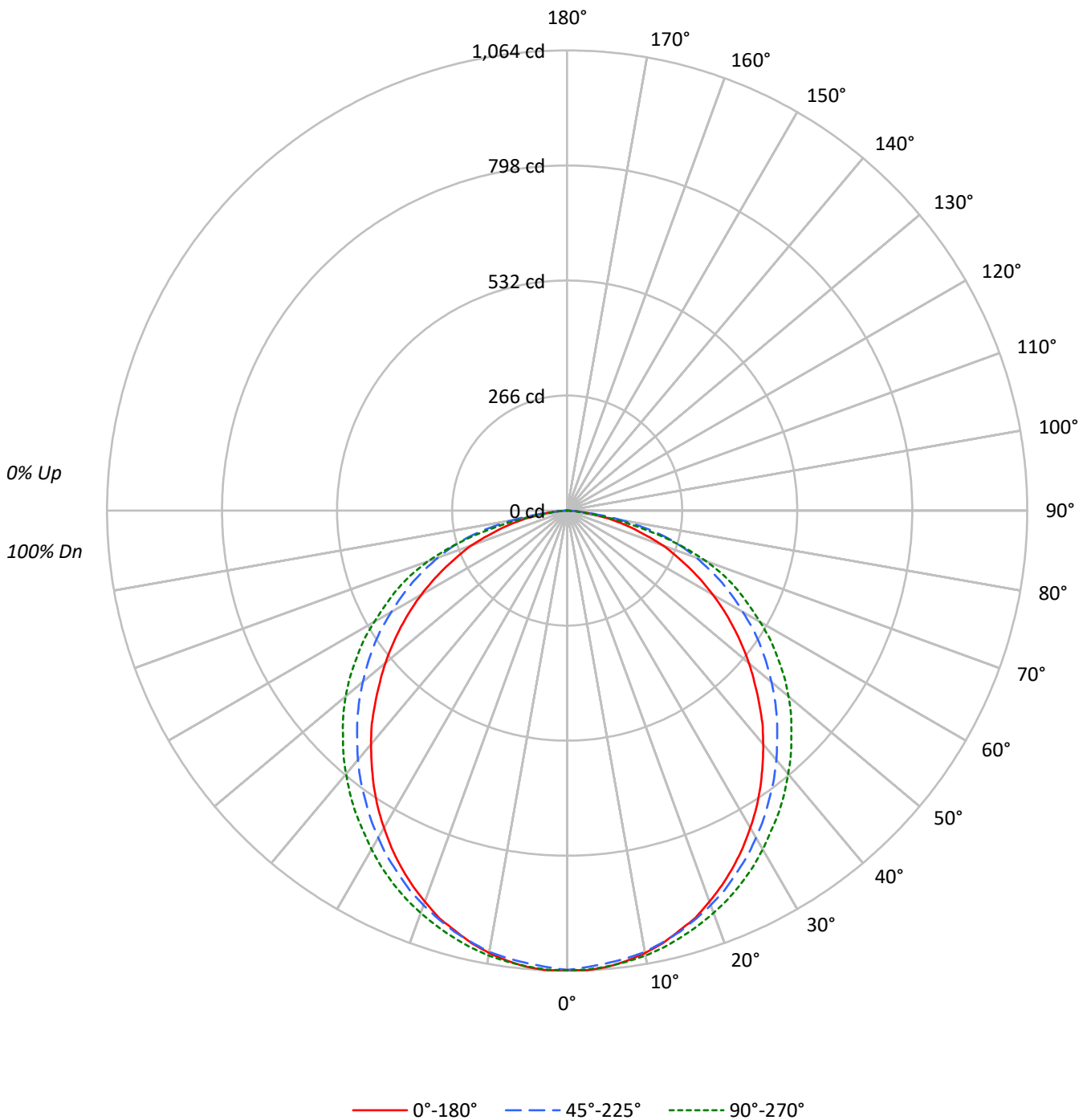
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2859	2859	2859
5°	2862	2838	2858
10°	2839	2830	2855
15°	2799	2808	2845
20°	2755	2780	2835
25°	2699	2747	2826
30°	2632	2714	2811
35°	2559	2676	2802
40°	2478	2643	2794
45°	2387	2611	2791
50°	2298	2582	2798
55°	2201	2561	2790
60°	2096	2525	2772
65°	1973	2518	2772
70°	1858	2496	2693
75°	1611	2439	2301
80°	1303	1967	1533
85°	865	682	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	3.4
10°-20°	285.5	9.6
20°-30°	428.2	14.4
30°-40°	510.8	17.2
40°-50°	528.1	17.7
50°-60°	482.1	16.2
60°-70°	379.4	12.7
70°-80°	220.9	7.4
80°-90°	40.7	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°	814.0	27.4
0°-40°	1324.8	44.5
0°-60°	2335.0	78.5
0°-90°	2976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1059	1056	1051	1059	1058	100
15°	1005	1006	1008	1021	1021	284
25°	909	913	925	947	952	418
35°	779	789	814	846	853	487
45°	627	648	686	724	733	484
55°	469	494	546	586	595	420
65°	310	342	395	426	435	308
75°	155	192	235	230	221	165
85°	28	40	22	18	15	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.4	1062.4	1062.4	1062.4	1062.4
2.5°	1063.9	1060.9	1056.5	1063.9	1062.4
5°	1059.4	1056.5	1050.6	1059.4	1058.0
7.5°	1050.6	1047.6	1044.7	1053.5	1052.1
10°	1038.8	1037.3	1035.8	1046.2	1044.7
12.5°	1024.0	1024.0	1022.5	1034.3	1034.3
15°	1004.8	1006.3	1007.8	1021.1	1021.1
17.5°	987.1	985.7	990.1	1004.8	1006.3
20°	962.0	965.0	970.9	988.6	990.1
22.5°	937.0	939.9	950.2	967.9	972.4
25°	908.9	913.4	925.2	947.3	951.7
27.5°	879.4	885.3	901.5	925.2	929.6
30°	847.0	855.8	873.5	900.1	904.5
32.5°	814.5	823.3	845.5	872.0	877.9
35°	779.1	789.4	814.5	845.5	852.9
37.5°	742.2	755.5	785.0	816.0	824.8
40°	705.3	720.1	752.5	785.0	795.3
42.5°	668.4	683.2	718.6	755.5	765.8
45°	627.1	647.8	686.1	724.5	733.3
47.5°	587.3	609.4	652.2	690.5	702.4
50°	548.9	571.0	616.8	656.6	668.4
52.5°	509.1	532.7	581.4	622.7	633.0
55°	469.2	494.3	545.9	585.8	594.6
57.5°	429.4	455.9	509.1	547.4	557.8
60°	389.5	417.6	469.2	507.6	515.0
62.5°	349.7	379.2	432.3	466.3	473.6
65°	309.9	342.3	395.4	426.4	435.3
67.5°	271.5	304.0	355.6	385.1	392.5
70°	236.1	265.6	317.2	339.4	342.3
72.5°	191.8	228.7	278.9	290.7	283.3
75°	154.9	191.8	234.6	230.2	221.3
77.5°	118.0	154.9	183.0	168.2	156.4
80°	84.1	121.0	126.9	104.8	98.9
82.5°	54.6	84.1	70.8	54.6	44.3
85°	28.0	39.8	22.1	17.7	14.8
87.5°	8.9	5.9	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)