

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: P275535

Luminaire Tested: **14CZ2-35-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275535
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-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3272.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

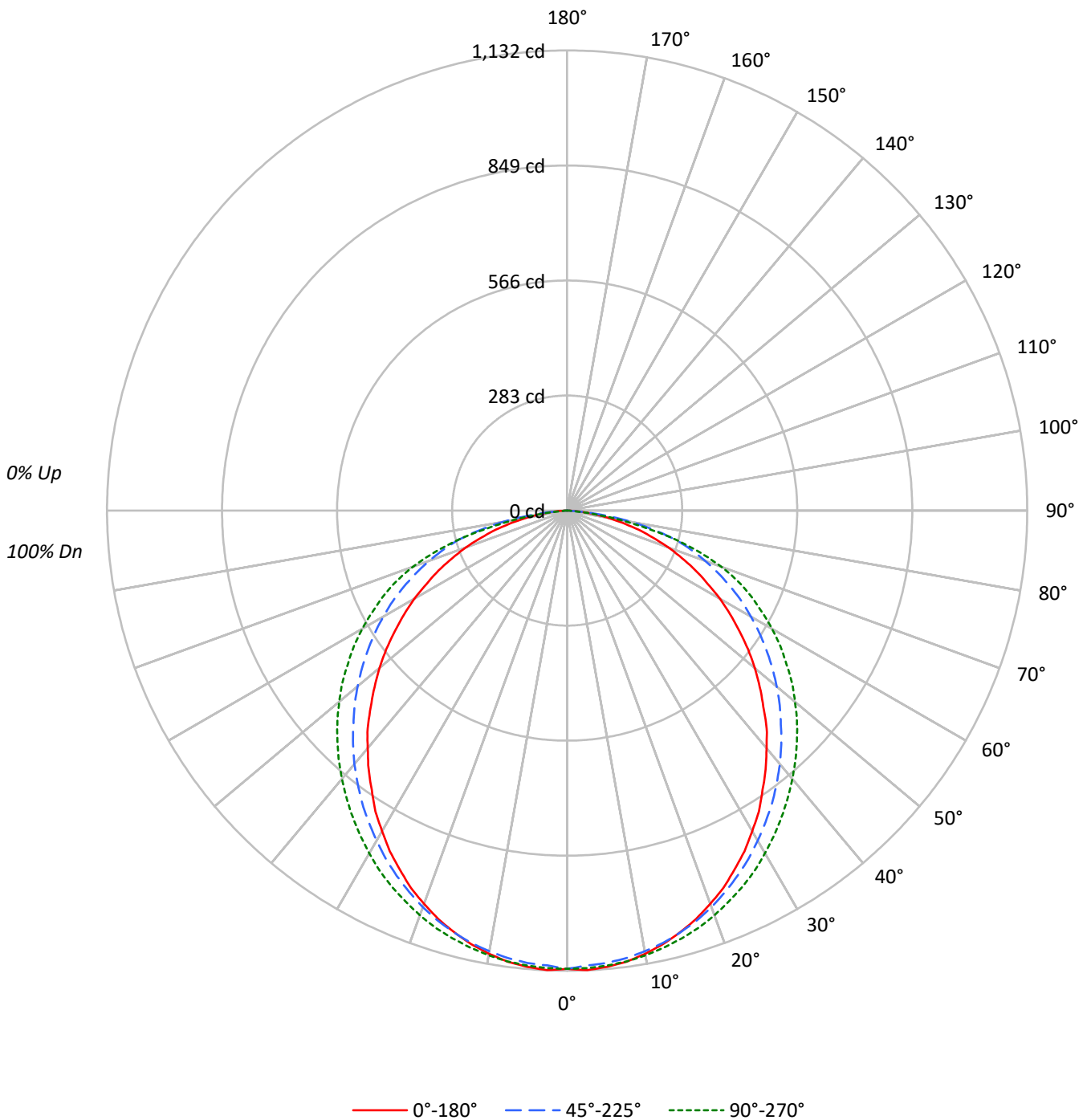
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3033	3033	3033
5°	3043	3017	3035
10°	3024	3008	3036
15°	2992	2994	3035
20°	2948	2973	3034
25°	2892	2944	3031
30°	2829	2913	3024
35°	2754	2888	3022
40°	2681	2860	3027
45°	2599	2829	3043
50°	2523	2816	3064
55°	2427	2807	3091
60°	2340	2812	3133
65°	2220	2820	3182
70°	2083	2841	3180
75°	1889	2868	2875
80°	1550	2476	2047
85°	1149	1170	472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.3
10°-20°	304.7	9.3
20°-30°	459.0	14.0
30°-40°	550.8	16.8
40°-50°	574.1	17.5
50°-60°	531.5	16.2
60°-70°	429.4	13.1
70°-80°	261.8	8.0
80°-90°	54.0	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°	870.4	26.6
0°-40°	1421.2	43.4
0°-60°	2526.7	77.2
0°-90°	3272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1126	1124	1117	1125	1124	107
15°	1074	1075	1075	1089	1089	303
25°	974	980	992	1016	1021	449
35°	838	851	879	911	920	525
45°	683	703	744	785	800	528
55°	517	544	598	645	659	463
65°	349	383	443	487	500	345
75°	182	222	276	280	276	191
85°	37	55	38	21	15	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.2	1127.2	1127.2	1127.2	1127.2
2.5°	1131.6	1127.9	1119.9	1127.9	1126.5
5°	1126.5	1123.6	1117.0	1125.0	1123.6
7.5°	1119.2	1116.3	1110.4	1119.9	1118.5
10°	1106.8	1105.3	1100.9	1111.9	1111.2
12.5°	1092.2	1091.5	1089.3	1101.7	1100.9
15°	1074.0	1074.7	1074.7	1089.3	1089.3
17.5°	1053.5	1055.0	1057.9	1074.0	1076.1
20°	1029.4	1032.4	1038.2	1056.4	1059.4
22.5°	1004.6	1006.8	1015.6	1037.5	1040.4
25°	974.0	979.8	991.5	1016.3	1020.7
27.5°	944.8	949.9	966.0	991.5	998.8
30°	910.5	918.6	937.5	965.2	973.3
32.5°	877.7	886.5	908.3	940.4	947.7
35°	838.3	851.4	879.2	911.3	920.0
37.5°	802.5	815.0	846.3	881.3	891.6
40°	763.1	778.5	814.2	851.4	861.6
42.5°	726.7	741.3	779.9	817.9	831.7
45°	682.9	703.3	743.5	785.0	799.6
47.5°	642.8	663.2	709.2	753.7	766.8
50°	602.6	624.5	672.7	718.6	731.8
52.5°	561.1	584.4	636.2	682.2	697.5
55°	517.3	544.3	598.3	645.0	658.8
57.5°	475.7	503.4	561.1	608.5	622.3
60°	434.8	463.3	522.4	567.6	582.2
62.5°	389.6	423.2	484.4	529.0	539.9
65°	348.7	383.0	442.9	487.4	499.8
67.5°	305.7	342.9	402.7	443.6	455.3
70°	264.8	303.5	361.1	399.1	404.2
72.5°	221.1	260.5	318.8	342.9	342.9
75°	181.7	221.8	275.8	280.2	276.5
77.5°	138.6	183.1	218.1	209.4	200.6
80°	100.0	143.7	159.8	143.7	132.1
82.5°	67.1	104.3	96.3	76.6	67.9
85°	37.2	55.4	37.9	21.2	15.3
87.5°	13.9	12.4	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)