

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: P275533

Luminaire Tested: **14CZ2-35-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275533
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

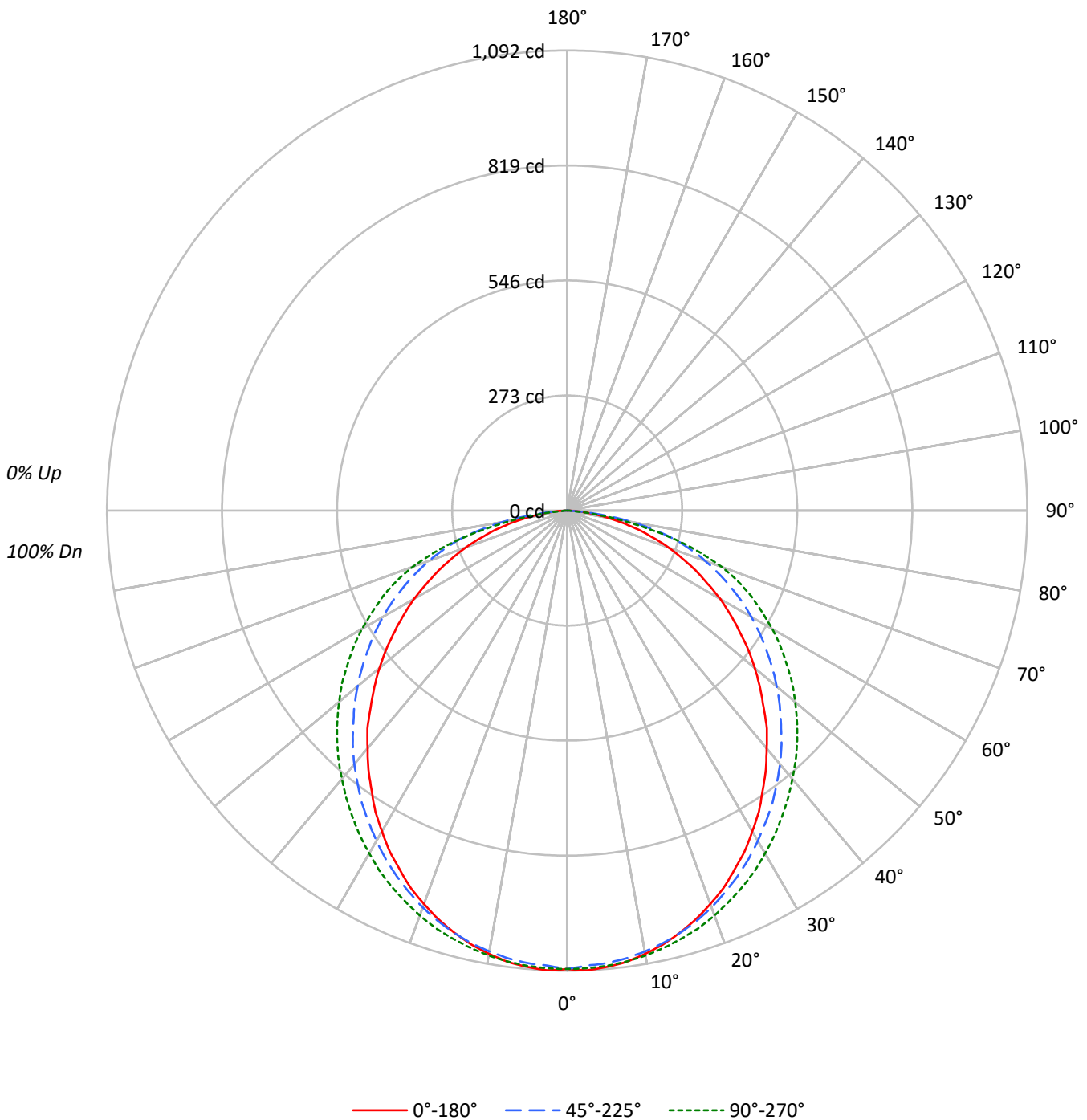
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2928	2928	2928
5°	2937	2912	2929
10°	2919	2904	2930
15°	2888	2890	2929
20°	2845	2869	2928
25°	2791	2841	2925
30°	2731	2812	2919
35°	2658	2787	2917
40°	2588	2761	2921
45°	2508	2731	2937
50°	2435	2718	2957
55°	2343	2709	2983
60°	2259	2714	3024
65°	2143	2721	3072
70°	2011	2743	3069
75°	1823	2768	2775
80°	1495	2390	1976
85°	1108	1130	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.3
10°-20°	294.1	9.3
20°-30°	443.0	14.0
30°-40°	531.6	16.8
40°-50°	554.1	17.5
50°-60°	513.0	16.2
60°-70°	414.4	13.1
70°-80°	252.7	8.0
80°-90°	52.2	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°	840.0	26.6
0°-40°	1371.6	43.4
0°-60°	2438.7	77.2
0°-90°	3158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1087	1084	1078	1086	1084	103
15°	1036	1037	1037	1051	1051	292
25°	940	946	957	981	985	433
35°	809	822	848	880	888	507
45°	659	679	718	758	772	509
55°	499	525	577	622	636	447
65°	337	370	427	470	482	333
75°	175	214	266	270	267	184
85°	36	54	37	20	15	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.9	1087.9	1087.9	1087.9	1087.9
2.5°	1092.2	1088.6	1080.9	1088.6	1087.2
5°	1087.2	1084.4	1078.1	1085.8	1084.4
7.5°	1080.2	1077.4	1071.7	1080.9	1079.5
10°	1068.2	1066.8	1062.6	1073.2	1072.4
12.5°	1054.1	1053.4	1051.3	1063.3	1062.6
15°	1036.5	1037.2	1037.2	1051.3	1051.3
17.5°	1016.8	1018.2	1021.0	1036.5	1038.6
20°	993.6	996.4	1002.0	1019.6	1022.5
22.5°	969.6	971.8	980.2	1001.3	1004.1
25°	940.1	945.7	957.0	980.9	985.1
27.5°	911.9	916.8	932.3	957.0	964.0
30°	878.8	886.5	904.9	931.6	939.4
32.5°	847.1	855.6	876.7	907.7	914.7
35°	809.1	821.8	848.5	879.5	888.0
37.5°	774.6	786.6	816.8	850.6	860.5
40°	736.6	751.3	785.9	821.8	831.6
42.5°	701.4	715.4	752.8	789.4	802.8
45°	659.1	678.8	717.5	757.7	771.8
47.5°	620.4	640.1	684.5	727.4	740.1
50°	581.6	602.8	649.2	693.6	706.3
52.5°	541.5	564.0	614.0	658.4	673.2
55°	499.3	525.3	577.4	622.5	635.9
57.5°	459.1	485.9	541.5	587.3	600.7
60°	419.7	447.1	504.2	547.8	561.9
62.5°	376.0	408.4	467.6	510.5	521.1
65°	336.6	369.7	427.4	470.4	482.4
67.5°	295.0	331.0	388.7	428.1	439.4
70°	255.6	292.9	348.6	385.2	390.1
72.5°	213.4	251.4	307.7	331.0	331.0
75°	175.3	214.1	266.2	270.4	266.9
77.5°	133.8	176.7	210.5	202.1	193.6
80°	96.5	138.7	154.2	138.7	127.5
82.5°	64.8	100.7	93.0	73.9	65.5
85°	35.9	53.5	36.6	20.4	14.8
87.5°	13.4	12.0	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)