

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: P275536

Luminaire Tested: **14CZ2-35-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275536
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-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3286.0 lumens
Efficiency: N/A
Efficacy: 116.2 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

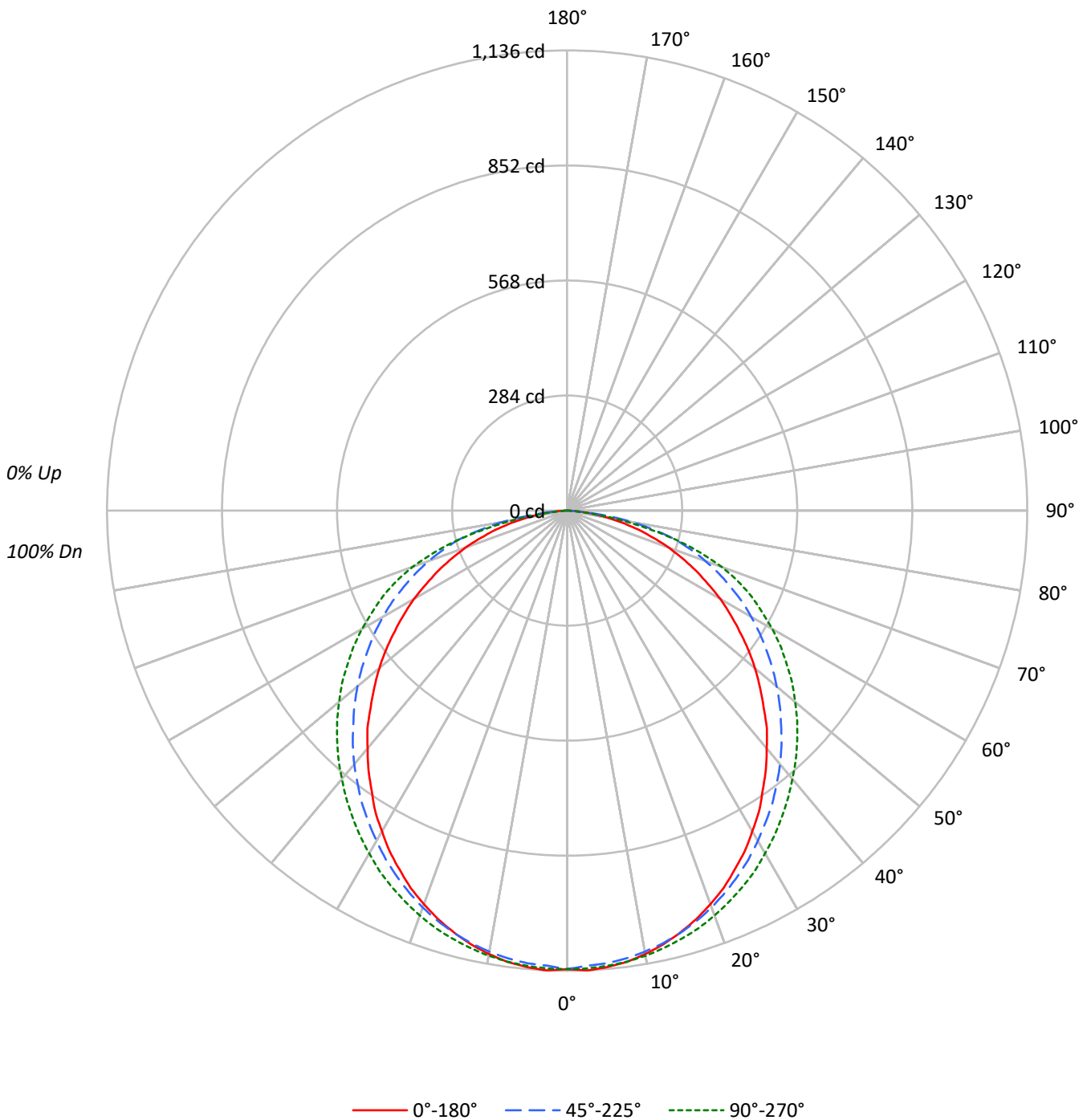
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3046	3046	3046
5°	3056	3030	3048
10°	3037	3021	3049
15°	3005	3007	3048
20°	2961	2986	3047
25°	2904	2957	3044
30°	2841	2925	3037
35°	2766	2900	3035
40°	2692	2872	3040
45°	2610	2841	3056
50°	2534	2828	3077
55°	2437	2819	3104
60°	2350	2823	3147
65°	2230	2832	3196
70°	2093	2854	3194
75°	1896	2880	2887
80°	1556	2487	2055
85°	1155	1176	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.3
10°-20°	306.0	9.3
20°-30°	461.0	14.0
30°-40°	553.2	16.8
40°-50°	576.5	17.5
50°-60°	533.7	16.2
60°-70°	431.3	13.1
70°-80°	262.9	8.0
80°-90°	54.3	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°	874.1	26.6
0°-40°	1427.2	43.4
0°-60°	2537.5	77.2
0°-90°	3286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1131	1128	1122	1130	1128	107
15°	1078	1079	1079	1094	1094	304
25°	978	984	996	1021	1025	451
35°	842	855	883	915	924	527
45°	686	706	747	788	803	530
55°	520	547	601	648	662	465
65°	350	385	445	490	502	346
75°	182	223	277	281	278	192
85°	37	56	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°	1132.0	1132.0	1132.0	1132.0	1132.0
2.5°	1136.4	1132.8	1124.7	1132.8	1131.3
5°	1131.3	1128.4	1121.8	1129.8	1128.4
7.5°	1124.0	1121.0	1115.2	1124.7	1123.2
10°	1111.5	1110.1	1105.7	1116.7	1115.9
12.5°	1096.9	1096.1	1093.9	1106.4	1105.7
15°	1078.5	1079.3	1079.3	1093.9	1093.9
17.5°	1058.0	1059.5	1062.4	1078.5	1080.7
20°	1033.9	1036.8	1042.6	1061.0	1063.9
22.5°	1008.9	1011.1	1019.9	1041.9	1044.8
25°	978.2	984.0	995.8	1020.7	1025.1
27.5°	948.9	954.0	970.1	995.8	1003.1
30°	914.4	922.5	941.5	969.4	977.4
32.5°	881.5	890.2	912.2	944.5	951.8
35°	841.9	855.1	882.9	915.2	923.9
37.5°	806.0	818.4	849.9	885.1	895.4
40°	766.4	781.8	817.7	855.1	865.3
42.5°	729.8	744.4	783.3	821.4	835.3
45°	685.8	706.3	746.6	788.4	803.1
47.5°	645.5	666.0	712.2	756.9	770.1
50°	605.2	627.2	675.6	721.7	734.9
52.5°	563.5	586.9	638.9	685.1	700.5
55°	519.5	546.6	600.8	647.7	661.6
57.5°	477.7	505.6	563.5	611.1	625.0
60°	436.7	465.3	524.6	570.0	584.7
62.5°	391.3	425.0	486.5	531.2	542.2
65°	350.2	384.7	444.8	489.5	501.9
67.5°	307.0	344.4	404.5	445.5	457.2
70°	266.0	304.8	362.7	400.8	405.9
72.5°	222.0	261.6	320.2	344.4	344.4
75°	182.4	222.7	277.0	281.4	277.7
77.5°	139.2	183.9	219.1	210.3	201.5
80°	100.4	144.3	160.5	144.3	132.6
82.5°	67.4	104.8	96.7	76.9	68.1
85°	37.4	55.7	38.1	21.2	15.4
87.5°	13.9	12.5	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)