

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: P275482

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275482
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633.0 lumens
Efficiency: N/A
Efficacy: 128.9 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

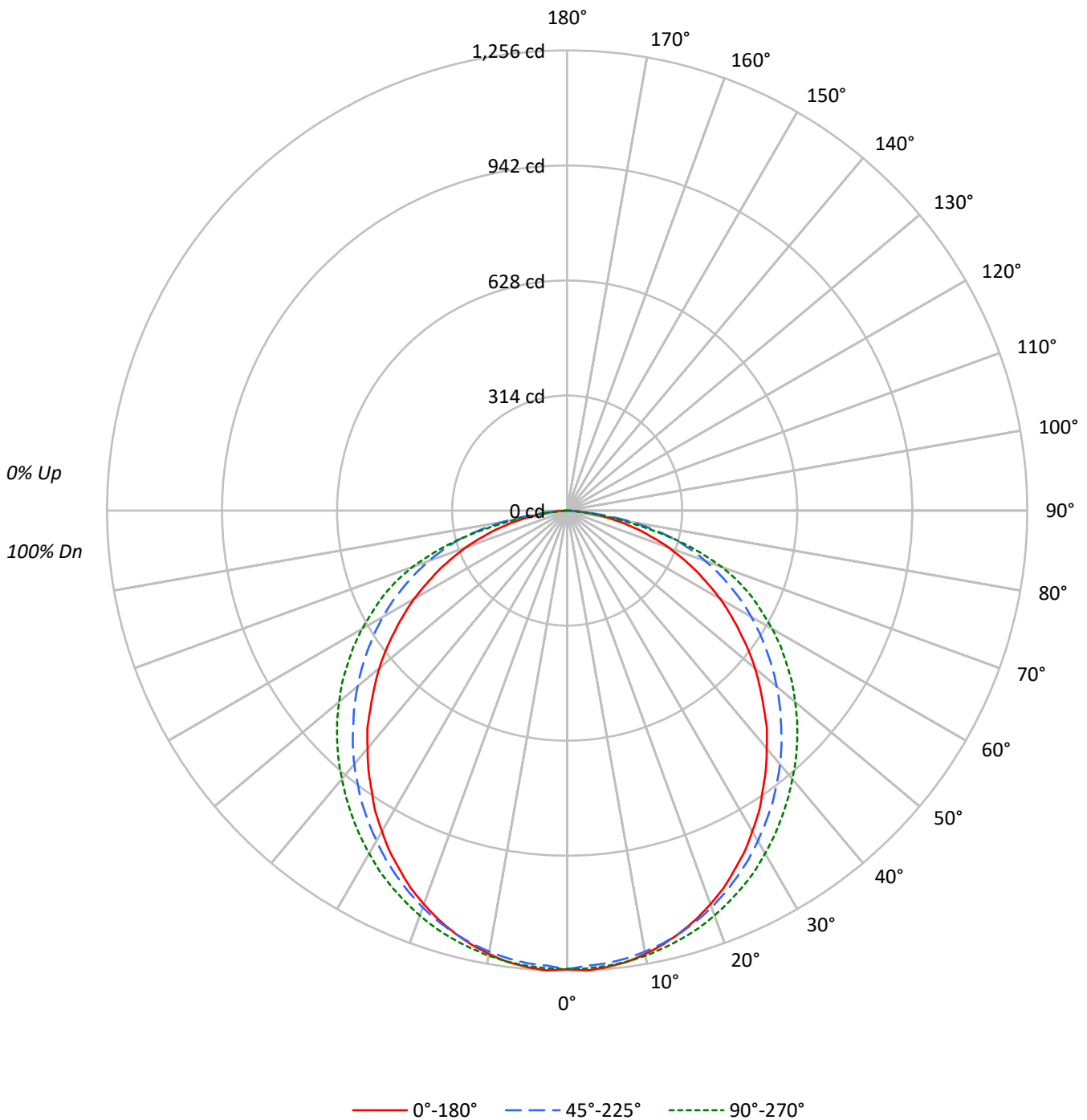
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3368	3368	3368
5°	3379	3350	3370
10°	3358	3340	3371
15°	3322	3324	3370
20°	3273	3301	3368
25°	3211	3269	3365
30°	3141	3235	3358
35°	3058	3207	3356
40°	2976	3176	3361
45°	2885	3142	3379
50°	2801	3127	3401
55°	2694	3117	3432
60°	2598	3122	3479
65°	2465	3131	3533
70°	2314	3155	3531
75°	2097	3184	3192
80°	1720	2749	2272
85°	1275	1300	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.3
10°-20°	338.3	9.3
20°-30°	509.6	14.0
30°-40°	611.6	16.8
40°-50°	637.4	17.5
50°-60°	590.1	16.2
60°-70°	476.8	13.1
70°-80°	290.7	8.0
80°-90°	60.0	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°	966.4	26.6
0°-40°	1578.0	43.4
0°-60°	2805.5	77.2
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1251	1248	1240	1249	1248	119
15°	1192	1193	1193	1210	1210	336
25°	1082	1088	1101	1128	1133	498
35°	931	945	976	1012	1022	583
45°	758	781	826	872	888	586
55°	574	604	664	716	732	515
65°	387	425	492	541	555	383
75°	202	246	306	311	307	212
85°	41	62	42	24	17	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1256.4	1252.4	1243.5	1252.4	1250.8
5°	1250.8	1247.5	1240.2	1249.2	1247.5
7.5°	1242.7	1239.4	1232.9	1243.5	1241.9
10°	1228.9	1227.3	1222.4	1234.6	1233.8
12.5°	1212.7	1211.9	1209.5	1223.2	1222.4
15°	1192.4	1193.3	1193.3	1209.5	1209.5
17.5°	1169.8	1171.4	1174.6	1192.4	1194.9
20°	1143.0	1146.3	1152.8	1173.0	1176.2
22.5°	1115.5	1117.9	1127.6	1151.9	1155.2
25°	1081.5	1087.9	1100.9	1128.4	1133.3
27.5°	1049.1	1054.7	1072.6	1100.9	1109.0
30°	1011.0	1019.9	1041.0	1071.7	1080.7
32.5°	974.5	984.3	1008.6	1044.2	1052.3
35°	930.8	945.4	976.2	1011.8	1021.5
37.5°	891.1	904.9	939.7	978.6	989.9
40°	847.3	864.4	904.1	945.4	956.7
42.5°	806.8	823.0	866.0	908.1	923.5
45°	758.2	780.9	825.5	871.7	887.9
47.5°	713.7	736.4	787.4	836.8	851.4
50°	669.1	693.4	746.9	797.9	812.5
52.5°	623.0	648.9	706.4	757.4	774.4
55°	574.3	604.3	664.3	716.1	731.5
57.5°	528.2	559.0	623.0	675.6	691.0
60°	482.8	514.4	580.0	630.2	646.4
62.5°	432.6	469.8	537.9	587.3	599.5
65°	387.2	425.3	491.7	541.1	554.9
67.5°	339.4	380.7	447.2	492.5	505.5
70°	294.1	337.0	401.0	443.1	448.8
72.5°	245.5	289.2	354.0	380.7	380.7
75°	201.7	246.3	306.2	311.1	307.0
77.5°	153.9	203.3	242.2	232.5	222.8
80°	111.0	159.6	177.4	159.6	146.6
82.5°	74.5	115.8	106.9	85.1	75.3
85°	41.3	61.6	42.1	23.5	17.0
87.5°	15.4	13.8	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)