

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: P258791

Luminaire Tested: **14CZ-LD5-35-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3309.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

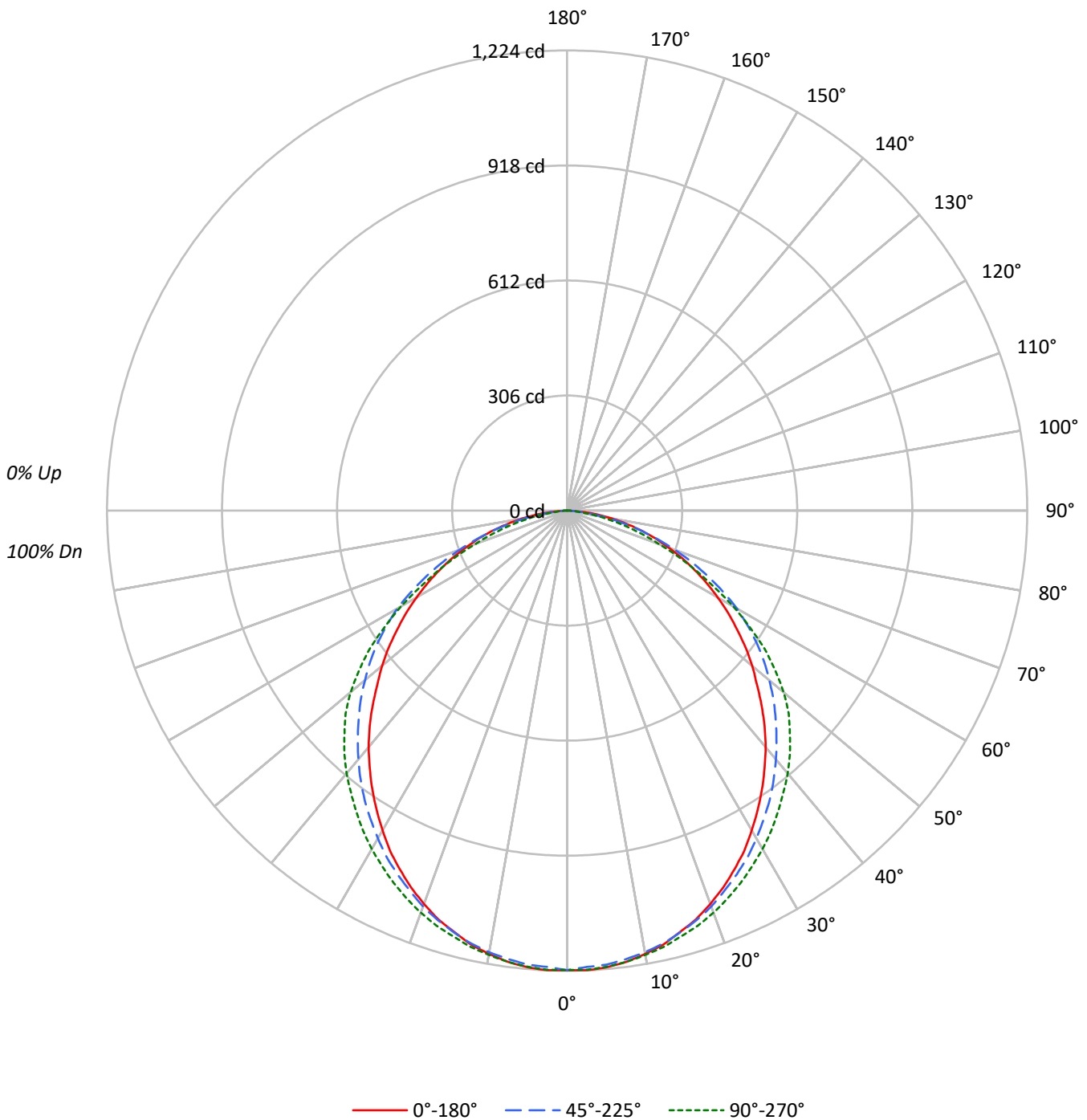
Input Watts (W): 27.435
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3289	3289	3289
5°	3294	3274	3290
10°	3272	3260	3280
15°	3233	3237	3266
20°	3188	3209	3260
25°	3126	3170	3244
30°	3051	3129	3230
35°	2969	3085	3211
40°	2885	3035	3206
45°	2783	2985	3187
50°	2691	2938	3148
55°	2587	2891	3009
60°	2492	2809	2746
65°	2385	2629	2413
70°	2250	2389	2042
75°	2100	2070	1686
80°	1850	1599	1234
85°	1457	775	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	3.5
10°-20°	329.0	9.9
20°-30°	493.8	14.9
30°-40°	588.7	17.8
40°-50°	606.4	18.3
50°-60°	540.4	16.3
60°-70°	389.4	11.8
70°-80°	203.6	6.2
80°-90°	42.1	1.3
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°	938.3	28.4
0°-40°	1527.1	46.1
0°-60°	2673.9	80.8
0°-90°	3309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1219	1216	1212	1219	1218	116
15°	1160	1162	1162	1174	1172	327
25°	1053	1059	1068	1088	1093	485
35°	904	916	939	970	978	565
45°	731	748	784	829	838	564
55°	552	569	616	644	641	495
65°	374	388	413	394	379	371
75°	202	212	199	172	162	214
85°	47	41	25	22	22	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.3	1222.3	1222.3	1222.3	1222.3
2.5°	1223.8	1220.9	1215.0	1222.3	1222.3
5°	1219.4	1216.4	1212.0	1219.4	1217.9
7.5°	1210.5	1207.6	1203.2	1212.0	1210.5
10°	1197.3	1195.8	1192.9	1201.7	1200.2
12.5°	1182.5	1181.1	1179.6	1188.4	1188.4
15°	1160.4	1161.9	1161.9	1173.7	1172.2
17.5°	1139.8	1141.2	1142.7	1157.5	1157.5
20°	1113.2	1114.7	1120.6	1136.8	1138.3
22.5°	1085.2	1086.7	1094.1	1113.2	1116.2
25°	1052.8	1058.7	1067.5	1088.2	1092.6
27.5°	1020.3	1024.8	1039.5	1063.1	1066.1
30°	982.0	990.9	1007.1	1033.6	1039.5
32.5°	943.7	954.0	973.2	1002.6	1010.0
35°	903.9	915.7	939.2	970.2	977.6
37.5°	862.6	872.9	902.4	934.8	945.1
40°	821.3	831.6	864.0	900.9	912.7
42.5°	777.1	791.8	824.2	865.5	877.3
45°	731.3	747.6	784.4	828.7	837.5
47.5°	684.2	701.9	744.6	788.8	799.2
50°	642.9	659.1	701.9	744.6	752.0
52.5°	598.6	613.4	660.6	696.0	697.4
55°	551.5	569.2	616.3	644.3	641.4
57.5°	508.7	523.4	569.2	583.9	575.0
60°	463.0	476.3	522.0	523.4	510.2
62.5°	418.8	432.0	467.4	457.1	440.9
65°	374.5	387.8	412.9	393.7	378.9
67.5°	331.8	343.6	358.3	333.2	318.5
70°	286.0	302.3	303.7	274.3	259.5
72.5°	246.2	255.1	252.1	224.1	210.9
75°	202.0	212.3	199.1	172.5	162.2
77.5°	160.7	168.1	150.4	125.3	118.0
80°	119.4	123.9	103.2	84.0	79.6
82.5°	81.1	81.1	59.0	45.7	41.3
85°	47.2	41.3	25.1	22.1	22.1
87.5°	16.2	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)