

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: P258684

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-UNV-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

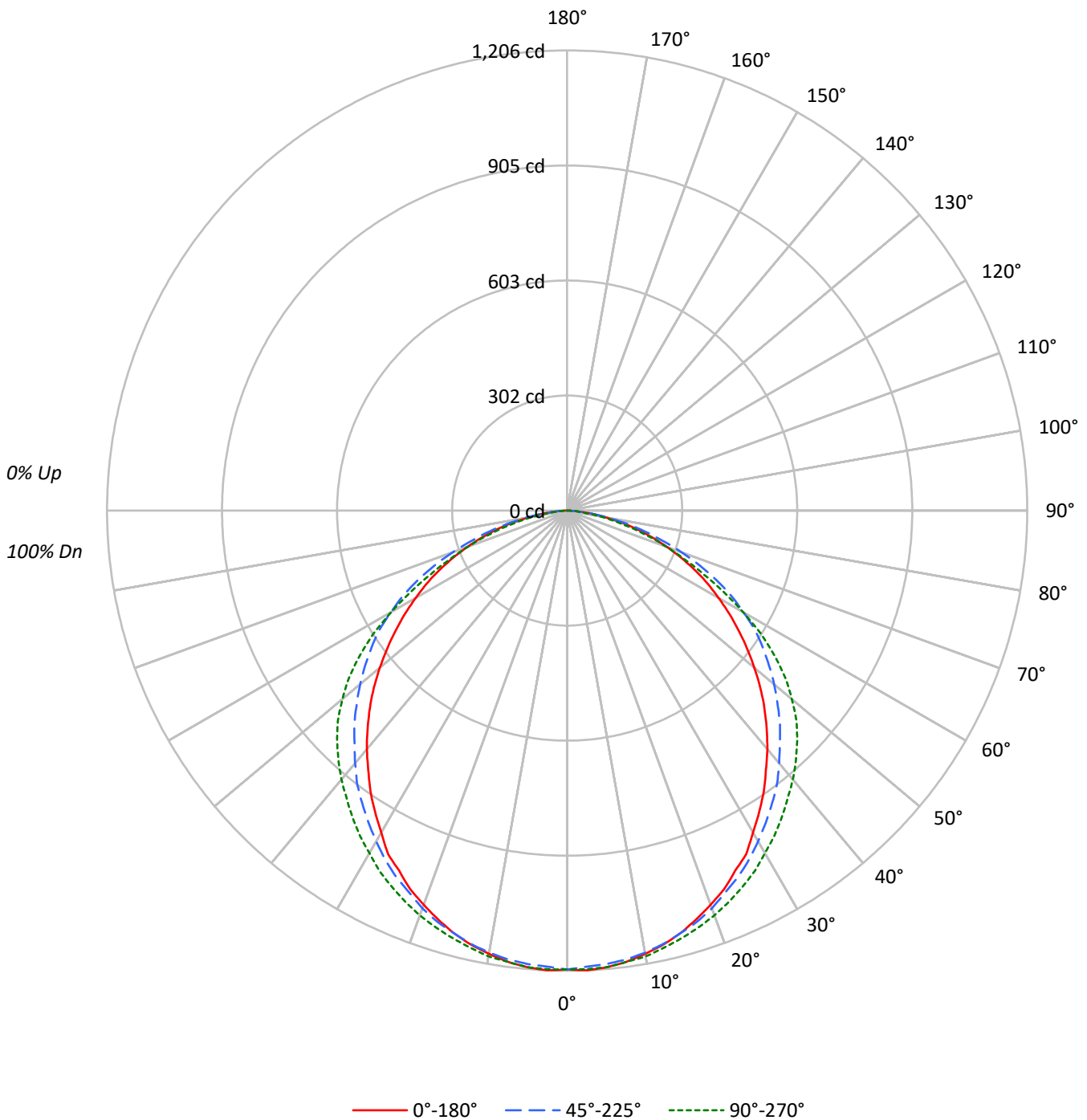
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3237	3237	3237
5°	3244	3222	3244
10°	3224	3215	3242
15°	3195	3195	3232
20°	3148	3176	3233
25°	3093	3147	3230
30°	3028	3109	3222
35°	2953	3077	3223
40°	2869	3036	3232
45°	2783	3001	3245
50°	2683	2965	3219
55°	2575	2937	3114
60°	2467	2874	2865
65°	2354	2751	2511
70°	2185	2508	2172
75°	1982	2187	1794
80°	1579	1731	1323
85°	1115	963	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.4
10°-20°	325.1	9.8
20°-30°	490.2	14.7
30°-40°	587.6	17.6
40°-50°	609.8	18.3
50°-60°	550.0	16.5
60°-70°	401.2	12.0
70°-80°	210.5	6.3
80°-90°	44.9	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°	929.1	27.9
0°-40°	1516.7	45.5
0°-60°	2676.4	80.3
0°-90°	3333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1201	1198	1193	1201	1201	114
15°	1147	1147	1147	1160	1160	323
25°	1042	1047	1060	1083	1088	481
35°	899	909	937	971	981	561
45°	731	746	789	836	853	564
55°	549	568	626	667	664	491
65°	370	391	432	416	394	365
75°	191	217	210	182	172	200
85°	36	44	31	26	25	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.8	1202.8	1202.8	1202.8	1202.8
2.5°	1206.1	1202.8	1196.2	1202.8	1202.8
5°	1201.1	1197.9	1192.9	1201.1	1201.1
7.5°	1192.9	1189.6	1186.4	1194.6	1192.9
10°	1179.8	1178.1	1176.5	1186.4	1186.4
12.5°	1165.0	1165.0	1163.3	1174.9	1173.2
15°	1146.9	1146.9	1146.9	1160.1	1160.1
17.5°	1123.9	1127.2	1130.5	1145.3	1145.3
20°	1099.3	1102.6	1109.1	1127.2	1128.8
22.5°	1074.6	1076.3	1082.8	1104.2	1109.1
25°	1041.8	1046.7	1059.8	1082.8	1087.8
27.5°	1015.5	1017.1	1031.9	1058.2	1064.8
30°	974.4	985.9	1000.7	1030.3	1036.8
32.5°	936.6	946.5	969.5	1000.7	1010.5
35°	898.8	908.7	936.6	971.1	981.0
37.5°	856.1	870.9	903.7	938.2	949.7
40°	816.6	829.8	864.3	907.0	920.2
42.5°	773.9	787.1	824.9	872.5	887.3
45°	731.2	746.0	788.7	836.4	852.8
47.5°	686.8	703.3	747.6	800.2	815.0
50°	640.8	658.9	708.2	762.4	769.0
52.5°	594.8	614.5	667.1	714.8	721.3
55°	548.8	568.5	626.0	667.1	663.8
57.5°	504.4	525.8	585.0	606.3	603.0
60°	458.4	481.4	534.0	543.9	532.4
62.5°	415.7	437.1	486.4	478.2	463.4
65°	369.7	391.1	432.1	415.7	394.4
67.5°	323.7	350.0	376.3	348.3	331.9
70°	277.7	307.3	318.8	290.8	276.0
72.5°	233.3	264.5	261.3	233.3	223.5
75°	190.6	216.9	210.3	182.4	172.5
77.5°	144.6	174.2	159.4	136.4	128.2
80°	101.9	128.2	111.7	92.0	85.4
82.5°	67.4	85.4	69.0	54.2	49.3
85°	36.1	44.4	31.2	26.3	24.6
87.5°	14.8	13.1	11.5	11.5	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)