

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: P258847

Luminaire Tested: **14CZ-LD5-35-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258847
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-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3086.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

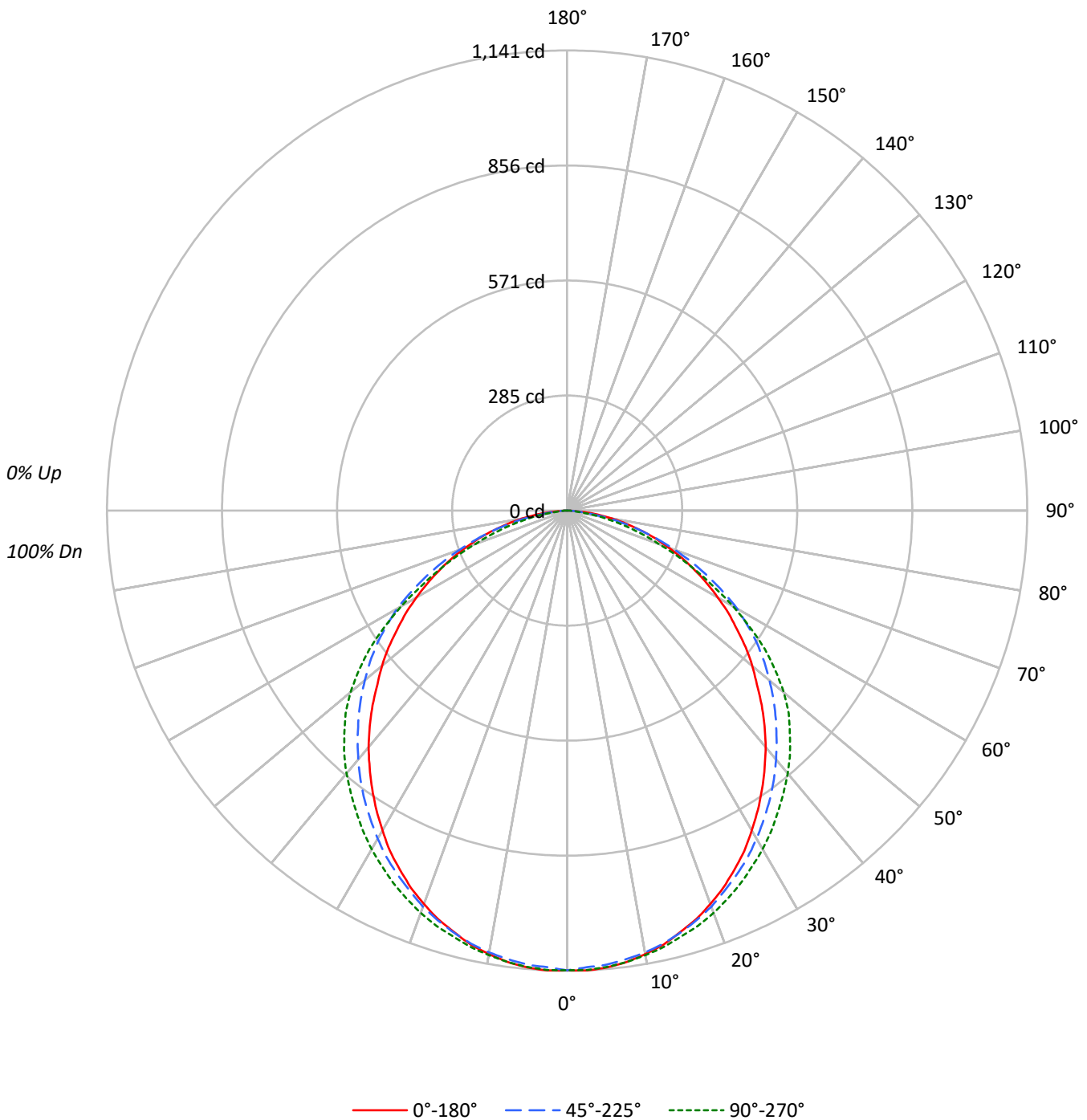
Input Watts (W): 27.528
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258847

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258847

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L92765-W2A1-U-3500K

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°	3068	3068	3068
5°	3072	3053	3068
10°	3051	3040	3058
15°	3015	3019	3046
20°	2973	2993	3040
25°	2915	2956	3026
30°	2846	2918	3013
35°	2769	2877	2995
40°	2690	2831	2990
45°	2596	2784	2973
50°	2510	2740	2936
55°	2413	2697	2807
60°	2324	2620	2561
65°	2224	2451	2250
70°	2099	2229	1904
75°	1959	1930	1573
80°	1726	1492	1151
85°	1359	722	636



TEST NUMBER: P258847

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.5
10°-20°	306.9	9.9
20°-30°	460.5	14.9
30°-40°	549.0	17.8
40°-50°	565.5	18.3
50°-60°	504.0	16.3
60°-70°	363.2	11.8
70°-80°	189.9	6.2
80°-90°	39.3	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°	875.1	28.4
0°-40°	1424.1	46.1
0°-60°	2493.7	80.8
0°-90°	3086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1137	1134	1130	1137	1136	108
15°	1082	1084	1084	1095	1093	305
25°	982	987	996	1015	1019	452
35°	843	854	876	905	912	527
45°	682	697	732	773	781	526
55°	514	531	575	601	598	461
65°	349	362	385	367	353	346
75°	188	198	186	161	151	200
85°	44	38	23	21	21	52
90°	0	0	0	0	0	



TEST NUMBER: P258847

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.0	1140.0	1140.0	1140.0	1140.0
2.5°	1141.3	1138.6	1133.1	1140.0	1140.0
5°	1137.2	1134.5	1130.3	1137.2	1135.8
7.5°	1129.0	1126.2	1122.1	1130.3	1129.0
10°	1116.6	1115.2	1112.5	1120.7	1119.3
12.5°	1102.8	1101.5	1100.1	1108.3	1108.3
15°	1082.2	1083.6	1083.6	1094.6	1093.2
17.5°	1063.0	1064.3	1065.7	1079.5	1079.5
20°	1038.2	1039.6	1045.1	1060.2	1061.6
22.5°	1012.1	1013.5	1020.3	1038.2	1041.0
25°	981.8	987.3	995.6	1014.8	1019.0
27.5°	951.6	955.7	969.5	991.5	994.2
30°	915.8	924.1	939.2	964.0	969.5
32.5°	880.1	889.7	907.6	935.1	942.0
35°	842.9	853.9	875.9	904.8	911.7
37.5°	804.4	814.1	841.6	871.8	881.4
40°	765.9	775.6	805.8	840.2	851.2
42.5°	724.7	738.4	768.7	807.2	818.2
45°	682.1	697.2	731.6	772.8	781.1
47.5°	638.1	654.6	694.4	735.7	745.3
50°	599.5	614.7	654.6	694.4	701.3
52.5°	558.3	572.0	616.1	649.1	650.4
55°	514.3	530.8	574.8	600.9	598.2
57.5°	474.4	488.2	530.8	544.5	536.3
60°	431.8	444.2	486.8	488.2	475.8
62.5°	390.5	402.9	435.9	426.3	411.2
65°	349.3	361.7	385.0	367.2	353.4
67.5°	309.4	320.4	334.2	310.8	297.0
70°	266.8	281.9	283.3	255.8	242.0
72.5°	229.6	237.9	235.1	209.0	196.6
75°	188.4	198.0	185.6	160.9	151.3
77.5°	149.9	156.8	140.3	116.9	110.0
80°	111.4	115.5	96.3	78.4	74.3
82.5°	75.6	75.6	55.0	42.6	38.5
85°	44.0	38.5	23.4	20.6	20.6
87.5°	15.1	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)