

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: P258699

Luminaire Tested: **14CZ-LD5-44-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258699
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-LD5-44-UNV-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3951.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

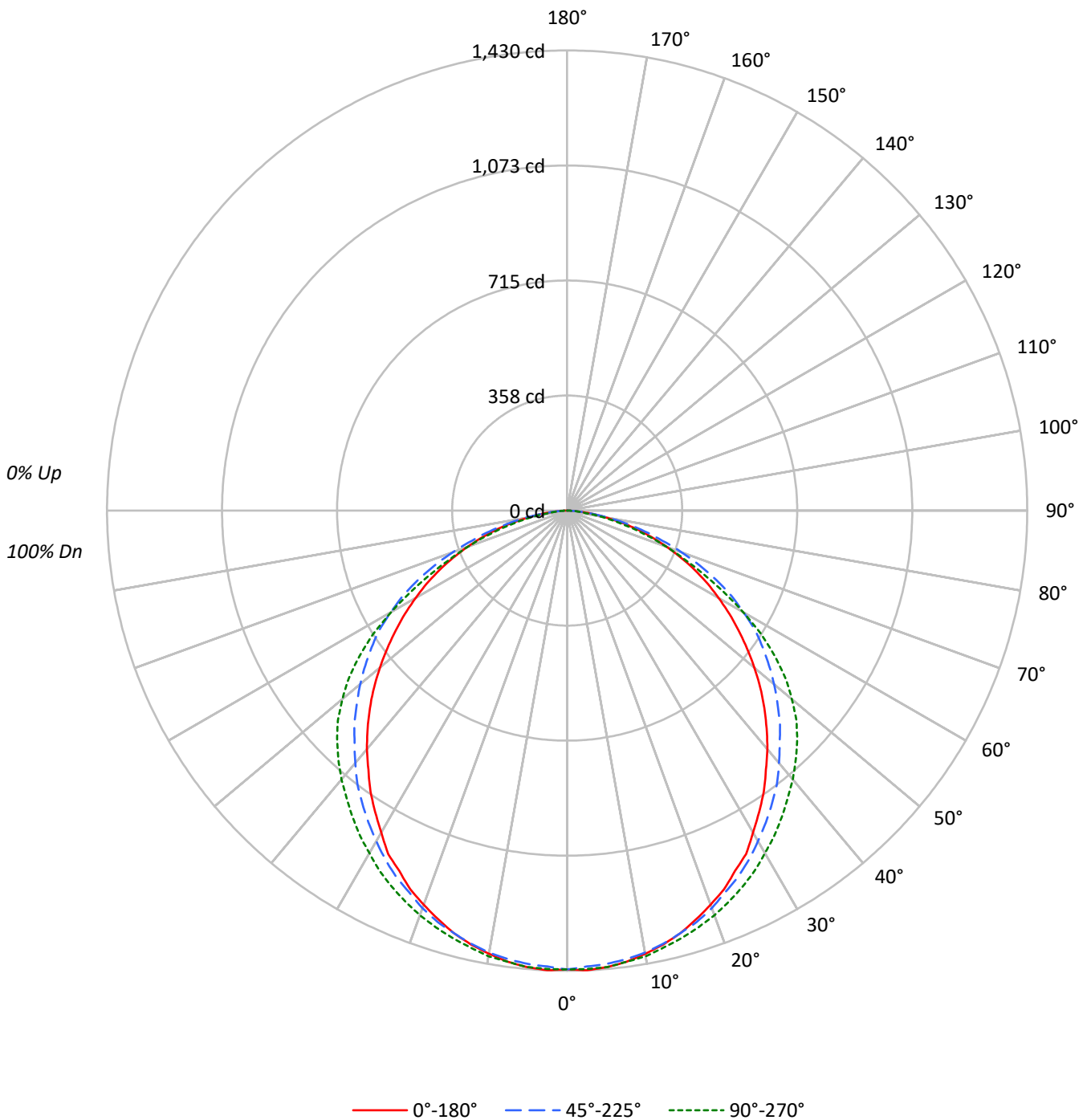
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3837	3837	3837
5°	3846	3820	3846
10°	3821	3811	3843
15°	3788	3788	3831
20°	3732	3765	3832
25°	3667	3730	3829
30°	3589	3686	3819
35°	3500	3647	3820
40°	3401	3599	3832
45°	3299	3558	3847
50°	3180	3514	3816
55°	3052	3482	3692
60°	2925	3407	3397
65°	2791	3262	2977
70°	2590	2973	2574
75°	2349	2592	2126
80°	1872	2053	1570
85°	1325	1142	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	3.4
10°-20°	385.4	9.8
20°-30°	581.1	14.7
30°-40°	696.5	17.6
40°-50°	722.8	18.3
50°-60°	651.9	16.5
60°-70°	475.6	12.0
70°-80°	249.5	6.3
80°-90°	53.2	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°	1101.4	27.9
0°-40°	1797.9	45.5
0°-60°	3172.7	80.3
0°-90°	3951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1424	1420	1414	1424	1424	135
15°	1360	1360	1360	1375	1375	383
25°	1235	1241	1256	1284	1290	570
35°	1066	1077	1110	1151	1163	665
45°	867	884	935	991	1011	668
55°	651	674	742	791	787	582
65°	438	464	512	493	468	433
75°	226	257	249	216	204	237
85°	43	53	37	31	29	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1429.7	1425.8	1418.0	1425.8	1425.8
5°	1423.9	1420.0	1414.1	1423.9	1423.9
7.5°	1414.1	1410.2	1406.3	1416.1	1414.1
10°	1398.5	1396.6	1394.6	1406.3	1406.3
12.5°	1381.0	1381.0	1379.1	1392.7	1390.7
15°	1359.6	1359.6	1359.6	1375.2	1375.2
17.5°	1332.3	1336.2	1340.1	1357.6	1357.6
20°	1303.1	1307.0	1314.8	1336.2	1338.2
22.5°	1273.9	1275.8	1283.6	1308.9	1314.8
25°	1234.9	1240.8	1256.3	1283.6	1289.5
27.5°	1203.8	1205.7	1223.2	1254.4	1262.2
30°	1155.1	1168.7	1186.2	1221.3	1229.1
32.5°	1110.3	1121.9	1149.2	1186.2	1197.9
35°	1065.5	1077.1	1110.3	1151.2	1162.8
37.5°	1014.8	1032.3	1071.3	1112.2	1125.8
40°	968.1	983.6	1024.6	1075.2	1090.8
42.5°	917.4	933.0	977.8	1034.3	1051.8
45°	866.8	884.3	935.0	991.4	1010.9
47.5°	814.2	833.7	886.3	948.6	966.1
50°	759.6	781.1	839.5	903.8	911.6
52.5°	705.1	728.5	790.8	847.3	855.1
55°	650.6	673.9	742.1	790.8	786.9
57.5°	598.0	623.3	693.4	718.7	714.8
60°	543.4	570.7	633.0	644.7	631.1
62.5°	492.8	518.1	576.6	566.8	549.3
65°	438.3	463.6	512.3	492.8	467.5
67.5°	383.7	414.9	446.1	412.9	393.5
70°	329.2	364.2	377.9	344.8	327.2
72.5°	276.6	313.6	309.7	276.6	264.9
75°	225.9	257.1	249.3	216.2	204.5
77.5°	171.4	206.5	188.9	161.7	151.9
80°	120.8	151.9	132.5	109.1	101.3
82.5°	79.9	101.3	81.8	64.3	58.4
85°	42.9	52.6	37.0	31.2	29.2
87.5°	17.5	15.6	13.6	13.6	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)