

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: P258851

Luminaire Tested: **14CZ-LD5-35-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258851
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-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3384.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

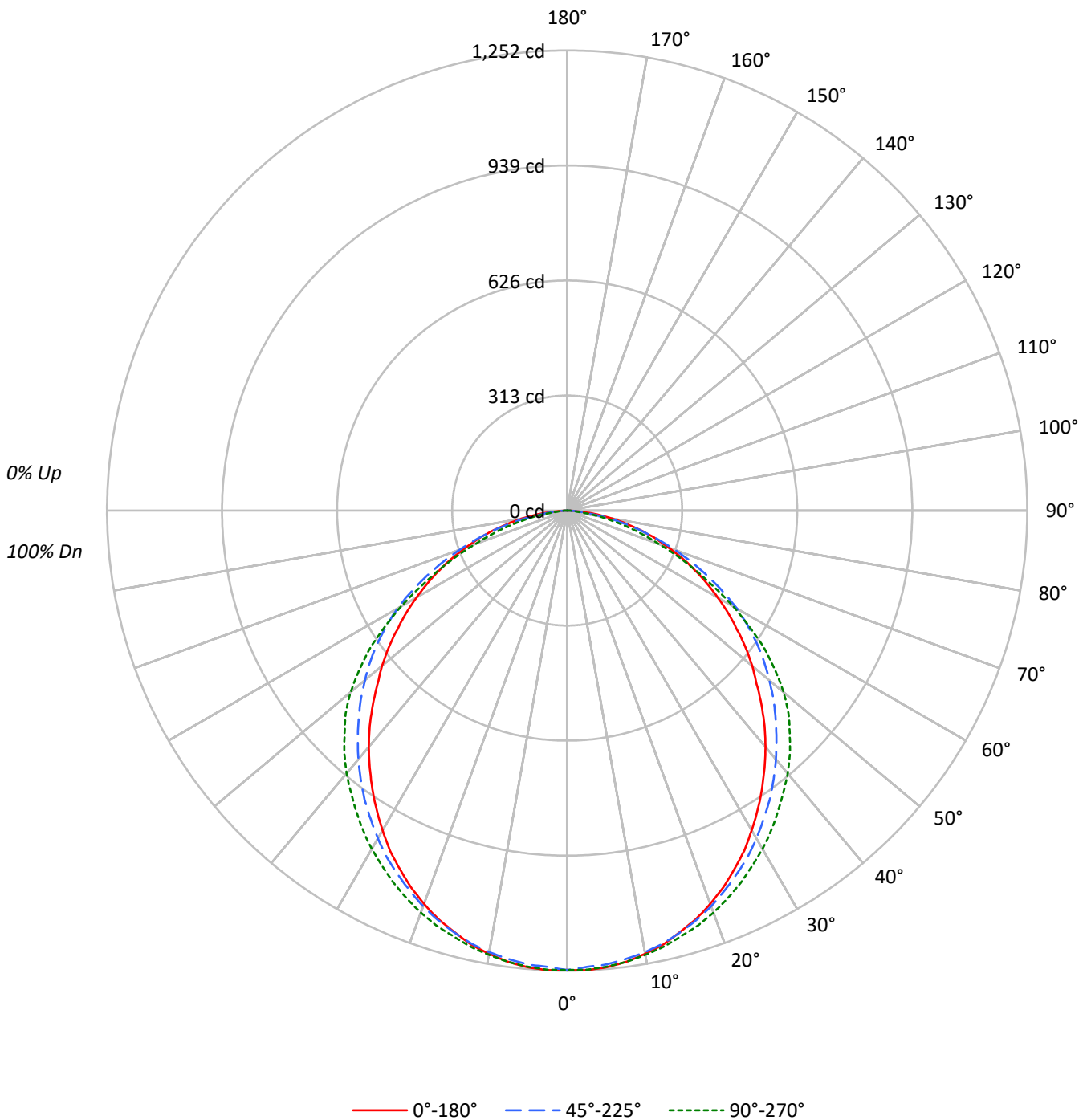
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3364	3364	3364
5°	3368	3348	3364
10°	3346	3333	3354
15°	3306	3310	3340
20°	3260	3282	3334
25°	3197	3241	3318
30°	3121	3200	3303
35°	3036	3155	3284
40°	2950	3104	3279
45°	2846	3053	3260
50°	2752	3005	3219
55°	2646	2957	3077
60°	2548	2873	2808
65°	2439	2688	2467
70°	2301	2444	2088
75°	2148	2117	1725
80°	1892	1636	1261
85°	1491	790	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	3.5
10°-20°	336.5	9.9
20°-30°	505.0	14.9
30°-40°	602.0	17.8
40°-50°	620.1	18.3
50°-60°	552.7	16.3
60°-70°	398.2	11.8
70°-80°	208.3	6.2
80°-90°	43.1	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°	959.6	28.4
0°-40°	1561.7	46.1
0°-60°	2734.5	80.8
0°-90°	3384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1247	1244	1240	1247	1246	118
15°	1187	1188	1188	1200	1199	335
25°	1077	1083	1092	1113	1117	496
35°	924	936	960	992	1000	578
45°	748	764	802	847	856	577
55°	564	582	630	659	656	506
65°	383	397	422	403	388	379
75°	207	217	204	176	166	219
85°	48	42	26	23	23	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.1	1250.1	1250.1	1250.1	1250.1
2.5°	1251.6	1248.5	1242.5	1250.1	1250.1
5°	1247.0	1244.0	1239.5	1247.0	1245.5
7.5°	1238.0	1235.0	1230.4	1239.5	1238.0
10°	1224.4	1222.9	1219.9	1228.9	1227.4
12.5°	1209.3	1207.8	1206.3	1215.4	1215.4
15°	1186.7	1188.2	1188.2	1200.3	1198.8
17.5°	1165.6	1167.1	1168.6	1183.7	1183.7
20°	1138.5	1140.0	1146.0	1162.6	1164.1
22.5°	1109.8	1111.3	1118.9	1138.5	1141.5
25°	1076.6	1082.7	1091.7	1112.8	1117.4
27.5°	1043.5	1048.0	1063.1	1087.2	1090.2
30°	1004.3	1013.3	1029.9	1057.0	1063.1
32.5°	965.1	975.6	995.2	1025.4	1032.9
35°	924.3	936.4	960.5	992.2	999.7
37.5°	882.1	892.7	922.8	956.0	966.6
40°	839.9	850.5	883.6	921.3	933.4
42.5°	794.7	809.7	842.9	885.1	897.2
45°	747.9	764.5	802.2	847.4	856.5
47.5°	699.7	717.8	761.5	806.7	817.3
50°	657.4	674.0	717.8	761.5	769.0
52.5°	612.2	627.3	675.5	711.7	713.2
55°	564.0	582.1	630.3	659.0	655.9
57.5°	520.2	535.3	582.1	597.1	588.1
60°	473.5	487.1	533.8	535.3	521.7
62.5°	428.2	441.8	478.0	467.4	450.9
65°	383.0	396.6	422.2	402.6	387.5
67.5°	339.3	351.3	366.4	340.8	325.7
70°	292.5	309.1	310.6	280.5	265.4
72.5°	251.8	260.9	257.9	229.2	215.6
75°	206.6	217.1	203.6	176.4	165.9
77.5°	164.4	171.9	153.8	128.2	120.6
80°	122.1	126.7	105.6	86.0	81.4
82.5°	82.9	82.9	60.3	46.7	42.2
85°	48.3	42.2	25.6	22.6	22.6
87.5°	16.6	10.6	10.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)