

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: P258688

Luminaire Tested: **14CZ-LD5-39-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258688
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-LD5-39-UNV-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

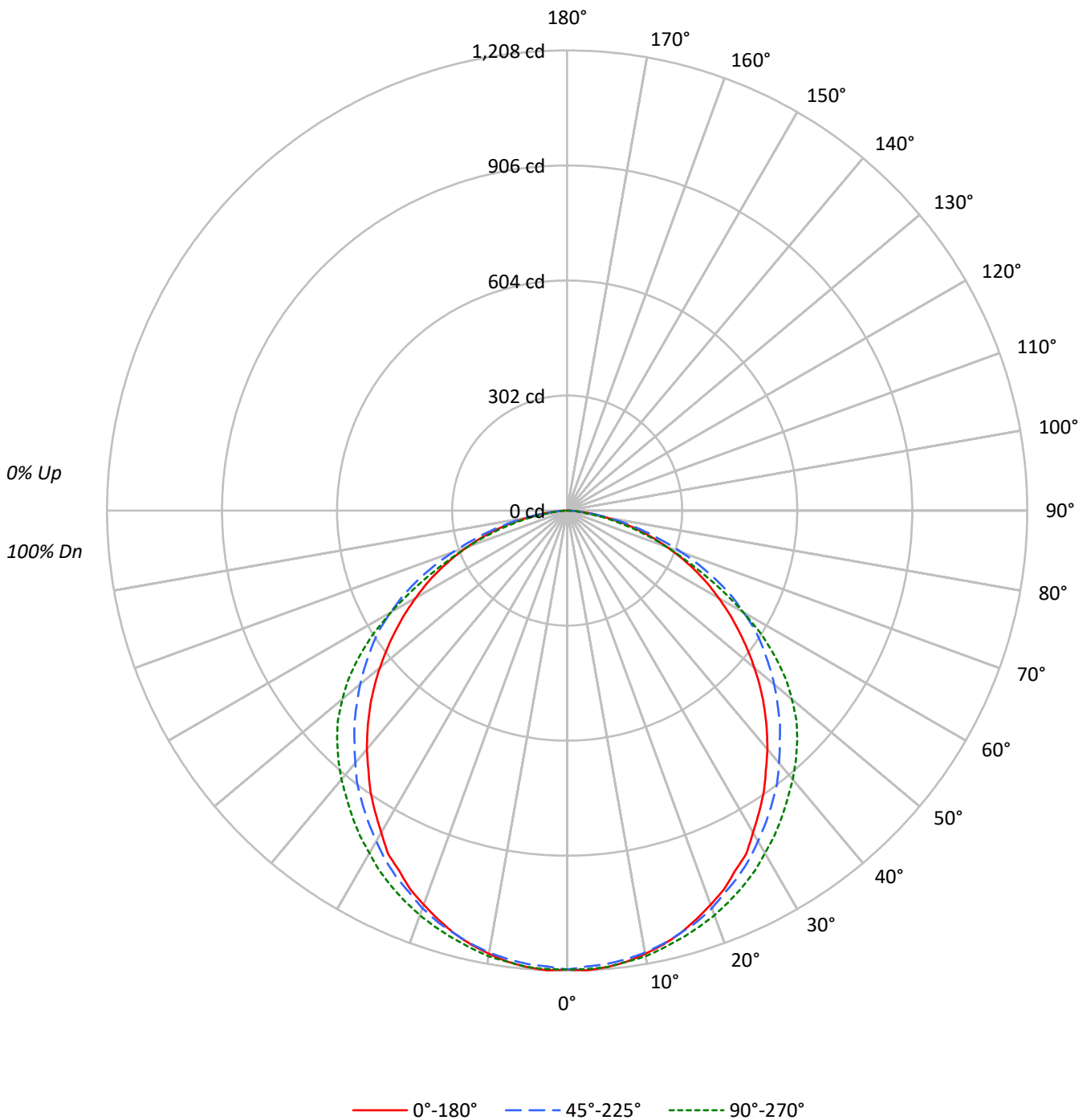
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3242	3242	3242
5°	3249	3227	3249
10°	3229	3220	3246
15°	3200	3200	3237
20°	3153	3181	3237
25°	3098	3151	3235
30°	3032	3114	3227
35°	2957	3081	3227
40°	2873	3041	3237
45°	2787	3006	3250
50°	2687	2969	3224
55°	2578	2942	3119
60°	2471	2878	2870
65°	2358	2756	2514
70°	2188	2511	2175
75°	1985	2190	1797
80°	1581	1734	1327
85°	1118	966	763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.4
10°-20°	325.6	9.8
20°-30°	490.9	14.7
30°-40°	588.5	17.6
40°-50°	610.7	18.3
50°-60°	550.8	16.5
60°-70°	401.8	12.0
70°-80°	210.8	6.3
80°-90°	45.0	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°	930.5	27.9
0°-40°	1519.0	45.5
0°-60°	2680.4	80.3
0°-90°	3338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1203	1200	1195	1203	1203	114
15°	1149	1149	1149	1162	1162	324
25°	1043	1048	1061	1084	1089	481
35°	900	910	938	973	982	562
45°	732	747	790	838	854	564
55°	550	569	627	668	665	492
65°	370	392	433	416	395	366
75°	191	217	211	183	173	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°	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1207.9	1204.6	1198.0	1204.6	1204.6
5°	1202.9	1199.7	1194.7	1202.9	1202.9
7.5°	1194.7	1191.4	1188.1	1196.4	1194.7
10°	1181.6	1179.9	1178.3	1188.1	1188.1
12.5°	1166.7	1166.7	1165.1	1176.6	1175.0
15°	1148.6	1148.6	1148.6	1161.8	1161.8
17.5°	1125.6	1128.9	1132.2	1147.0	1147.0
20°	1100.9	1104.2	1110.8	1128.9	1130.5
22.5°	1076.2	1077.9	1084.5	1105.9	1110.8
25°	1043.3	1048.3	1061.4	1084.5	1089.4
27.5°	1017.0	1018.6	1033.4	1059.8	1066.4
30°	975.8	987.4	1002.2	1031.8	1038.4
32.5°	938.0	947.9	970.9	1002.2	1012.1
35°	900.2	910.0	938.0	972.6	982.4
37.5°	857.4	872.2	905.1	939.6	951.2
40°	817.9	831.0	865.6	908.4	921.5
42.5°	775.1	788.2	826.1	873.8	888.6
45°	732.3	747.1	789.9	837.6	854.1
47.5°	687.9	704.3	748.8	801.4	816.2
50°	641.8	659.9	709.3	763.6	770.1
52.5°	595.7	615.5	668.1	715.8	722.4
55°	549.6	569.4	627.0	668.1	664.8
57.5°	505.2	526.6	585.8	607.2	603.9
60°	459.1	482.2	534.8	544.7	533.2
62.5°	416.3	437.7	487.1	478.9	464.1
65°	370.3	391.7	432.8	416.3	394.9
67.5°	324.2	350.5	376.8	348.9	332.4
70°	278.1	307.7	319.2	291.3	276.5
72.5°	233.7	264.9	261.7	233.7	223.8
75°	190.9	217.2	210.6	182.7	172.8
77.5°	144.8	174.4	159.6	136.6	128.4
80°	102.0	128.4	111.9	92.2	85.6
82.5°	67.5	85.6	69.1	54.3	49.4
85°	36.2	44.4	31.3	26.3	24.7
87.5°	14.8	13.2	11.5	11.5	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)