

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: P275709

Luminaire Tested: **14CZ2-39-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3433.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

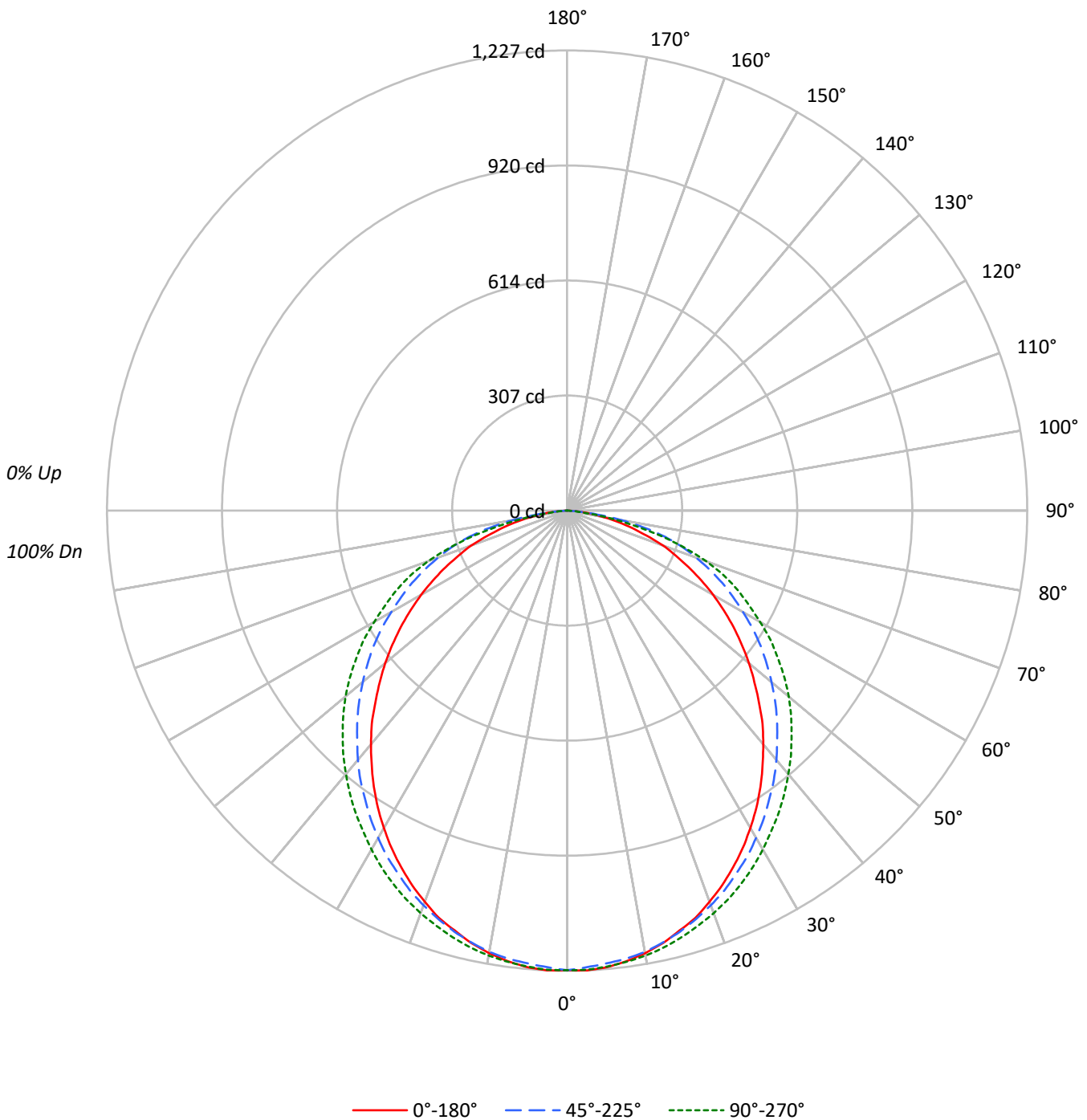
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3298	3298	3298
5°	3301	3274	3297
10°	3274	3265	3293
15°	3229	3239	3282
20°	3178	3207	3271
25°	3113	3169	3260
30°	3036	3131	3242
35°	2952	3087	3232
40°	2858	3049	3223
45°	2753	3012	3220
50°	2651	2979	3228
55°	2540	2955	3218
60°	2419	2913	3197
65°	2276	2905	3197
70°	2142	2880	3107
75°	1858	2813	2654
80°	1503	2269	1767
85°	997	787	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.4
10°-20°	329.3	9.6
20°-30°	494.0	14.4
30°-40°	589.3	17.2
40°-50°	609.2	17.7
50°-60°	556.2	16.2
60°-70°	437.7	12.7
70°-80°	254.8	7.4
80°-90°	46.9	1.4
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°	939.0	27.4
0°-40°	1528.3	44.5
0°-60°	2693.6	78.5
0°-90°	3433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1222	1219	1212	1222	1220	116
15°	1159	1161	1162	1178	1178	327
25°	1048	1054	1067	1093	1098	483
35°	899	911	940	975	984	562
45°	723	747	792	836	846	559
55°	541	570	630	676	686	484
65°	357	395	456	492	502	355
75°	179	221	271	266	255	190
85°	32	46	26	20	17	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.5	1225.5	1225.5	1225.5	1225.5
2.5°	1227.2	1223.8	1218.7	1227.2	1225.5
5°	1222.1	1218.7	1211.9	1222.1	1220.4
7.5°	1211.9	1208.5	1205.1	1215.3	1213.6
10°	1198.3	1196.6	1194.9	1206.8	1205.1
12.5°	1181.3	1181.3	1179.6	1193.2	1193.2
15°	1159.1	1160.8	1162.5	1177.9	1177.9
17.5°	1138.7	1137.0	1142.1	1159.1	1160.8
20°	1109.8	1113.2	1120.0	1140.4	1142.1
22.5°	1080.8	1084.2	1096.2	1116.6	1121.7
25°	1048.5	1053.6	1067.2	1092.8	1097.9
27.5°	1014.5	1021.3	1040.0	1067.2	1072.3
30°	977.0	987.2	1007.7	1038.3	1043.4
32.5°	939.6	949.8	975.3	1006.0	1012.8
35°	898.7	910.6	939.6	975.3	983.8
37.5°	856.2	871.5	905.5	941.3	951.5
40°	813.6	830.6	868.1	905.5	917.4
42.5°	771.1	788.1	828.9	871.5	883.4
45°	723.4	747.2	791.5	835.7	846.0
47.5°	677.4	703.0	752.3	796.6	810.2
50°	633.2	658.7	711.5	757.4	771.1
52.5°	587.2	614.5	670.6	718.3	730.2
55°	541.3	570.2	629.8	675.7	686.0
57.5°	495.3	526.0	587.2	631.5	643.4
60°	449.4	481.7	541.3	585.5	594.0
62.5°	403.4	437.4	498.7	537.9	546.4
65°	357.4	394.9	456.2	491.9	502.1
67.5°	313.2	350.6	410.2	444.3	452.8
70°	272.3	306.4	366.0	391.5	394.9
72.5°	221.3	263.8	321.7	335.3	326.8
75°	178.7	221.3	270.6	265.5	255.3
77.5°	136.2	178.7	211.1	194.0	180.4
80°	97.0	139.6	146.4	120.9	114.0
82.5°	63.0	97.0	81.7	63.0	51.1
85°	32.3	46.0	25.5	20.4	17.0
87.5°	10.2	6.8	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)