

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: P277249

Luminaire Tested: **22CZ2-39HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3465.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

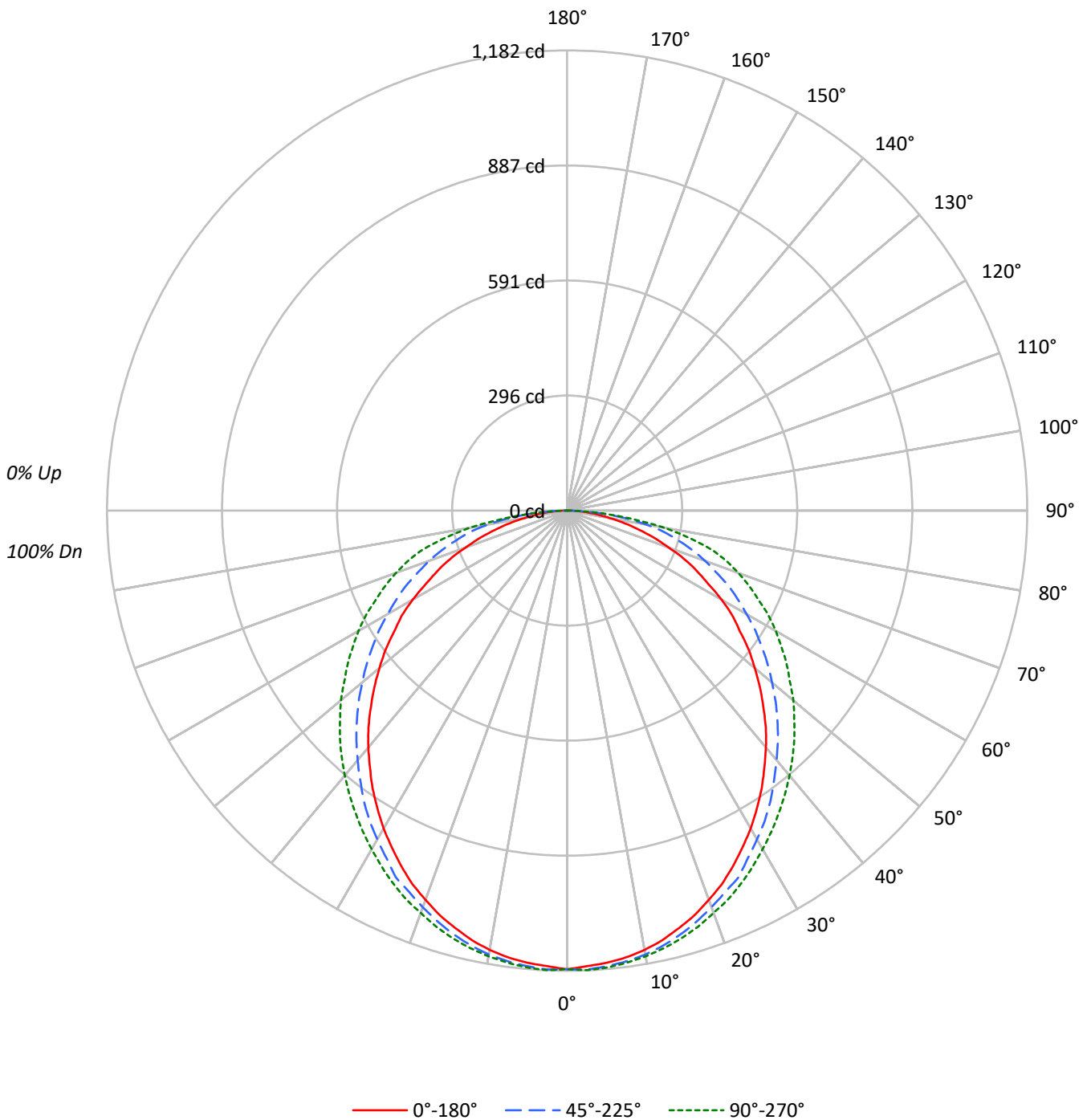
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3171	3171	3171
5°	3150	3173	3183
10°	3131	3163	3177
15°	3092	3140	3168
20°	3047	3105	3149
25°	2992	3088	3139
30°	2930	3031	3121
35°	2862	2991	3114
40°	2791	2941	3120
45°	2712	2907	3140
50°	2634	2876	3176
55°	2544	2864	3232
60°	2468	2863	3331
65°	2345	2909	3452
70°	2186	2965	3676
75°	2004	3067	3971
80°	1743	3197	3910
85°	1525	2844	3106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.2
10°-20°	317.4	9.2
20°-30°	476.4	13.7
30°-40°	569.3	16.4
40°-50°	592.0	17.1
50°-60°	548.7	15.8
60°-70°	450.0	13.0
70°-80°	304.2	8.8
80°-90°	95.6	2.8
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°	905.2	26.1
0°-40°	1474.5	42.6
0°-60°	2615.1	75.5
0°-90°	3465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1166	1168	1175	1176	1178	111
15°	1110	1115	1127	1134	1137	313
25°	1008	1016	1040	1052	1057	464
35°	871	883	910	938	948	545
45°	713	726	764	808	825	550
55°	542	559	610	665	689	487
65°	368	389	457	517	542	364
75°	193	225	295	355	382	204
85°	49	68	92	102	101	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.2	1178.2	1178.2	1178.2	1178.2
2.5°	1171.3	1174.8	1179.9	1181.6	1181.6
5°	1166.2	1167.9	1174.8	1176.5	1178.2
7.5°	1157.7	1161.1	1167.9	1169.6	1171.3
10°	1145.8	1149.2	1157.7	1161.1	1162.8
12.5°	1130.4	1133.8	1144.1	1149.2	1150.9
15°	1110.0	1115.1	1127.0	1133.8	1137.2
17.5°	1089.5	1094.6	1106.6	1116.8	1120.2
20°	1063.9	1075.9	1084.4	1098.0	1099.7
22.5°	1038.4	1045.2	1060.5	1074.2	1081.0
25°	1007.7	1016.2	1040.1	1052.0	1057.1
27.5°	975.3	987.2	1006.0	1024.7	1031.5
30°	942.9	951.4	975.3	997.4	1004.3
32.5°	907.1	919.0	944.6	966.7	977.0
35°	871.3	883.2	910.5	937.8	948.0
37.5°	832.0	845.7	873.0	905.4	919.0
40°	794.5	804.8	837.2	876.4	888.3
42.5°	755.3	767.3	801.4	844.0	857.6
45°	712.7	726.3	763.8	808.2	825.2
47.5°	671.8	685.4	726.3	770.7	791.1
50°	629.1	646.2	687.1	738.3	758.7
52.5°	588.2	603.6	649.6	702.5	721.2
55°	542.2	559.2	610.4	665.0	688.8
57.5°	504.7	516.6	572.9	629.1	653.0
60°	458.6	474.0	532.0	591.6	618.9
62.5°	409.2	434.8	494.5	555.8	583.1
65°	368.3	388.7	456.9	516.6	542.2
67.5°	325.7	347.8	414.3	477.4	506.4
70°	277.9	306.9	376.8	439.9	467.2
72.5°	235.3	266.0	337.6	399.0	428.0
75°	192.7	225.1	295.0	354.6	381.9
77.5°	151.7	187.6	255.8	301.8	318.8
80°	112.5	146.6	206.3	238.7	252.3
82.5°	78.4	107.4	151.7	168.8	172.2
85°	49.4	68.2	92.1	102.3	100.6
87.5°	22.2	27.3	34.1	37.5	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)