

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: P275659

Luminaire Tested: **14CZ2-39-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275659
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4052.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

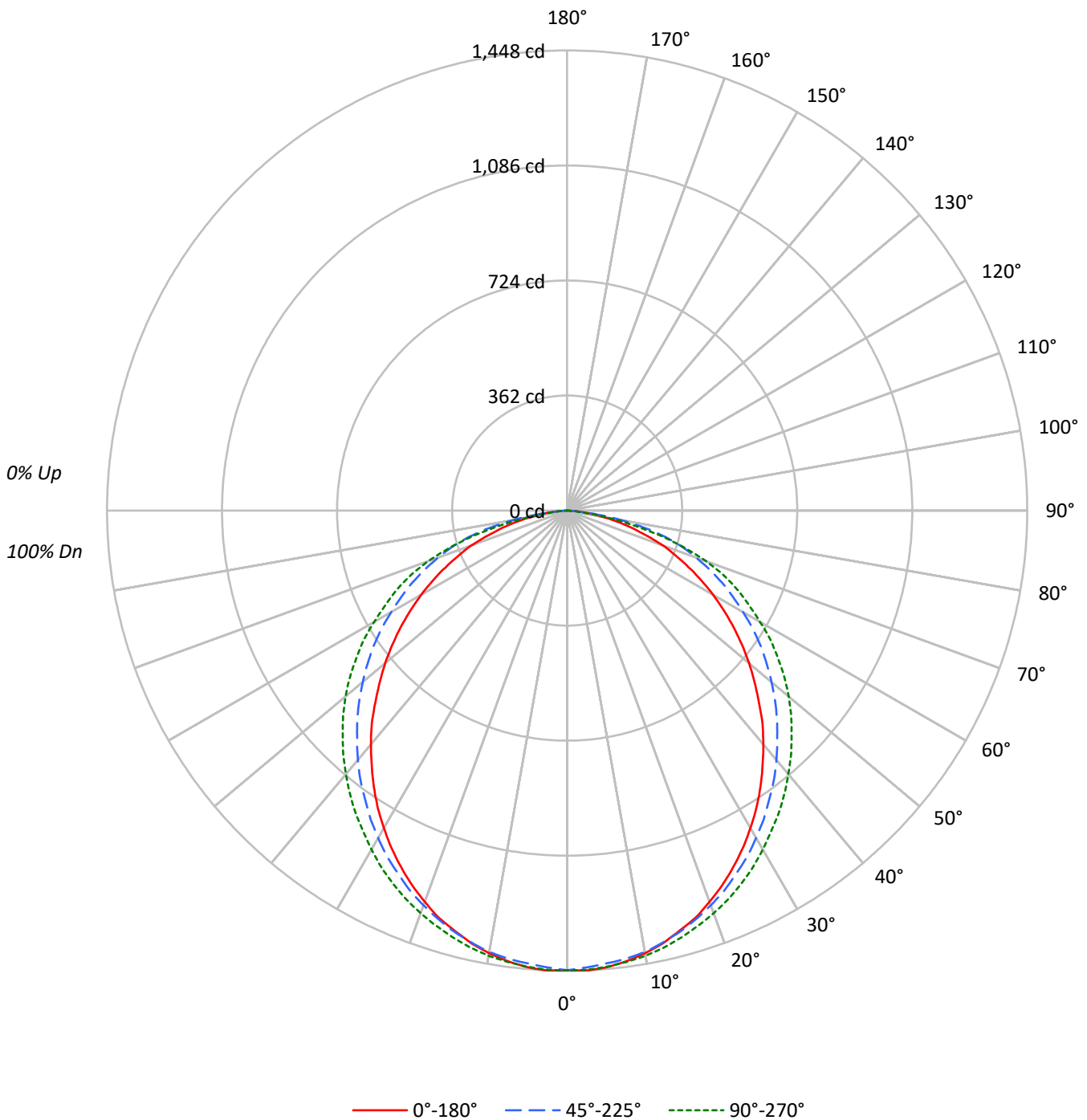
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3893	3893	3893
5°	3897	3864	3891
10°	3865	3854	3887
15°	3811	3823	3873
20°	3751	3785	3861
25°	3675	3740	3847
30°	3583	3695	3827
35°	3485	3643	3815
40°	3373	3599	3804
45°	3249	3555	3800
50°	3129	3516	3810
55°	2997	3487	3798
60°	2855	3439	3773
65°	2686	3428	3774
70°	2529	3398	3667
75°	2193	3321	3134
80°	1774	2678	2086
85°	1179	929	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.4
10°-20°	388.7	9.6
20°-30°	583.0	14.4
30°-40°	695.5	17.2
40°-50°	719.0	17.7
50°-60°	656.5	16.2
60°-70°	516.6	12.7
70°-80°	300.7	7.4
80°-90°	55.4	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°	1108.3	27.4
0°-40°	1803.8	44.5
0°-60°	3179.3	78.5
0°-90°	4052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1442	1438	1430	1442	1440	137
15°	1368	1370	1372	1390	1390	386
25°	1238	1244	1260	1290	1296	570
35°	1061	1075	1109	1151	1161	663
45°	854	882	934	986	998	659
55°	639	673	743	798	810	571
65°	422	466	538	581	593	419
75°	211	261	319	313	301	224
85°	38	54	30	24	20	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.5	1446.5	1446.5	1446.5	1446.5
2.5°	1448.5	1444.5	1438.5	1448.5	1446.5
5°	1442.5	1438.5	1430.4	1442.5	1440.5
7.5°	1430.4	1426.4	1422.4	1434.4	1432.4
10°	1414.4	1412.3	1410.3	1424.4	1422.4
12.5°	1394.3	1394.3	1392.3	1408.3	1408.3
15°	1368.1	1370.2	1372.2	1390.2	1390.2
17.5°	1344.0	1342.0	1348.1	1368.1	1370.2
20°	1309.9	1313.9	1321.9	1346.0	1348.1
22.5°	1275.7	1279.7	1293.8	1317.9	1323.9
25°	1237.6	1243.6	1259.7	1289.8	1295.8
27.5°	1197.4	1205.4	1227.5	1259.7	1265.7
30°	1153.2	1165.2	1189.3	1225.5	1231.5
32.5°	1109.0	1121.0	1151.2	1187.3	1195.4
35°	1060.8	1074.8	1109.0	1151.2	1161.2
37.5°	1010.5	1028.6	1068.8	1111.0	1123.0
40°	960.3	980.4	1024.6	1068.8	1082.9
42.5°	910.1	930.2	978.4	1028.6	1042.7
45°	853.8	882.0	934.2	986.4	998.5
47.5°	799.6	829.7	888.0	940.2	956.3
50°	747.4	777.5	839.8	894.0	910.1
52.5°	693.1	725.3	791.6	847.8	861.9
55°	638.9	673.0	743.3	797.6	809.6
57.5°	584.6	620.8	693.1	745.3	759.4
60°	530.4	568.6	638.9	691.1	701.1
62.5°	476.1	516.3	588.6	634.9	644.9
65°	421.9	466.1	538.4	580.6	592.7
67.5°	369.7	413.9	484.2	524.4	534.4
70°	321.4	361.6	431.9	462.1	466.1
72.5°	261.2	311.4	379.7	395.8	385.7
75°	210.9	261.2	319.4	313.4	301.4
77.5°	160.7	210.9	249.1	229.0	213.0
80°	114.5	164.7	172.8	142.6	134.6
82.5°	74.3	114.5	96.4	74.3	60.3
85°	38.2	54.2	30.1	24.1	20.1
87.5°	12.1	8.0	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)