

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: P275656

Luminaire Tested: **14CZ2-39-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275656
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3949.0 lumens
Efficiency: N/A
Efficacy: 125.3 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

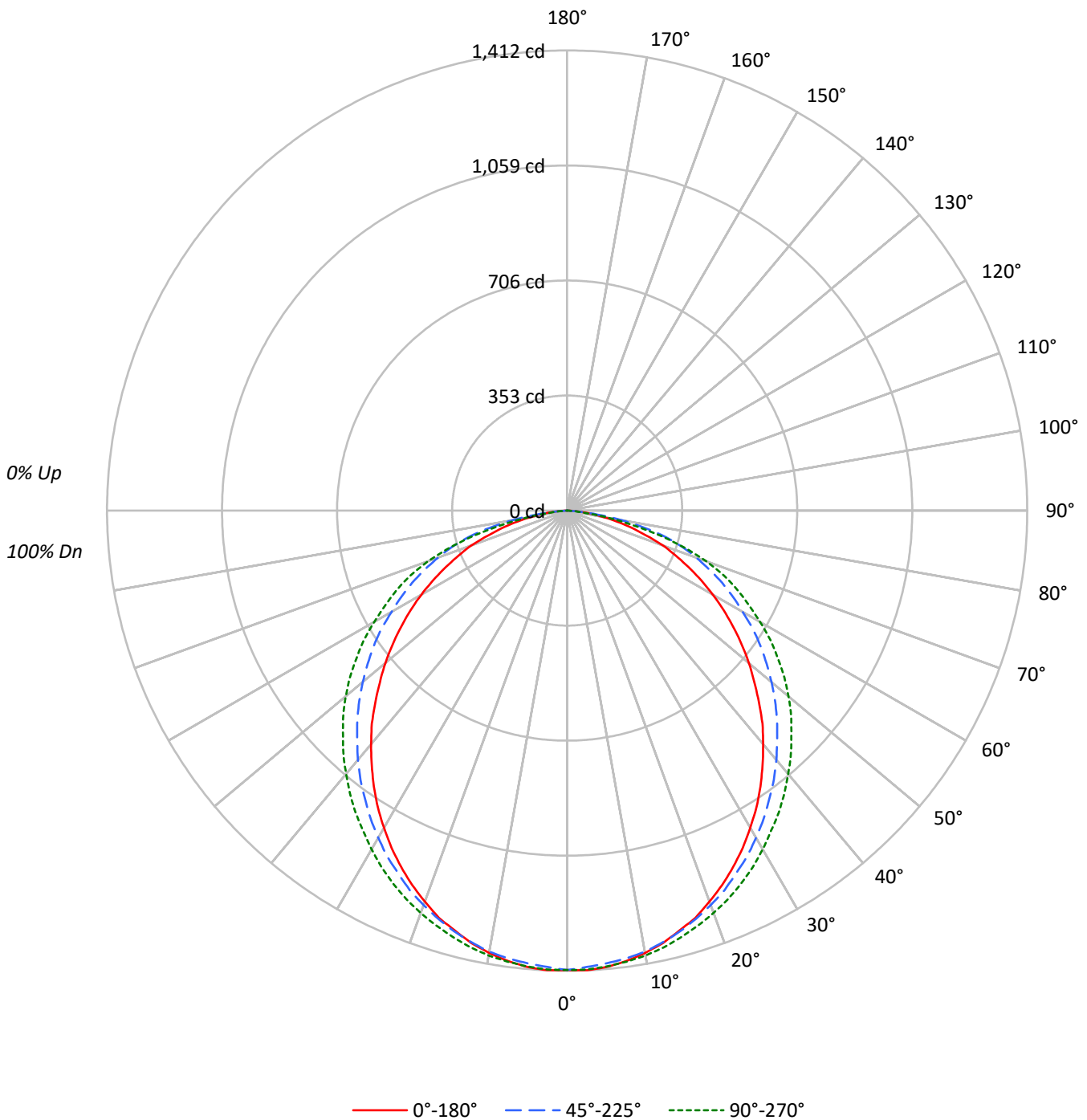
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3793	3793	3793
5°	3797	3766	3792
10°	3766	3756	3788
15°	3715	3726	3775
20°	3656	3689	3762
25°	3581	3645	3750
30°	3492	3602	3729
35°	3396	3551	3718
40°	3288	3508	3707
45°	3167	3465	3703
50°	3049	3426	3713
55°	2921	3399	3702
60°	2782	3351	3677
65°	2618	3341	3678
70°	2465	3312	3574
75°	2138	3237	3054
80°	1729	2610	2033
85°	1149	908	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.4
10°-20°	378.8	9.6
20°-30°	568.2	14.4
30°-40°	677.8	17.2
40°-50°	700.7	17.7
50°-60°	639.8	16.2
60°-70°	503.5	12.7
70°-80°	293.1	7.4
80°-90°	54.0	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°	1080.1	27.4
0°-40°	1758.0	44.5
0°-60°	3098.4	78.5
0°-90°	3949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1406	1402	1394	1406	1404	133
15°	1333	1335	1337	1355	1355	376
25°	1206	1212	1228	1257	1263	555
35°	1034	1048	1081	1122	1132	646
45°	832	860	910	961	973	643
55°	623	656	724	777	789	557
65°	411	454	525	566	578	408
75°	206	254	311	305	294	219
85°	37	53	29	24	20	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.7	1409.7	1409.7	1409.7	1409.7
2.5°	1411.7	1407.8	1401.9	1411.7	1409.7
5°	1405.8	1401.9	1394.1	1405.8	1403.9
7.5°	1394.1	1390.1	1386.2	1398.0	1396.0
10°	1378.4	1376.4	1374.5	1388.2	1386.2
12.5°	1358.8	1358.8	1356.9	1372.5	1372.5
15°	1333.4	1335.3	1337.3	1354.9	1354.9
17.5°	1309.9	1307.9	1313.8	1333.4	1335.3
20°	1276.6	1280.5	1288.3	1311.8	1313.8
22.5°	1243.3	1247.2	1260.9	1284.4	1290.3
25°	1206.1	1212.0	1227.6	1257.0	1262.9
27.5°	1166.9	1174.8	1196.3	1227.6	1233.5
30°	1123.9	1135.6	1159.1	1194.4	1200.2
32.5°	1080.8	1092.5	1121.9	1157.2	1165.0
35°	1033.8	1047.5	1080.8	1121.9	1131.7
37.5°	984.9	1002.5	1041.6	1082.7	1094.5
40°	935.9	955.5	998.6	1041.6	1055.3
42.5°	887.0	906.5	953.5	1002.5	1016.2
45°	832.1	859.5	910.4	961.4	973.1
47.5°	779.3	808.6	865.4	916.3	932.0
50°	728.4	757.7	818.4	871.3	887.0
52.5°	675.5	706.8	771.4	826.3	840.0
55°	622.6	655.9	724.4	777.3	789.1
57.5°	569.8	605.0	675.5	726.4	740.1
60°	516.9	554.1	622.6	673.5	683.3
62.5°	464.0	503.2	573.7	618.7	628.5
65°	411.2	454.2	524.7	565.8	577.6
67.5°	360.3	403.3	471.9	511.0	520.8
70°	313.3	352.4	421.0	450.3	454.2
72.5°	254.5	303.5	370.1	385.7	375.9
75°	205.6	254.5	311.3	305.4	293.7
77.5°	156.6	205.6	242.8	223.2	207.5
80°	111.6	160.6	168.4	139.0	131.2
82.5°	72.4	111.6	94.0	72.4	58.7
85°	37.2	52.9	29.4	23.5	19.6
87.5°	11.7	7.8	3.9	3.9	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)