

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: P275494

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 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: 4059.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

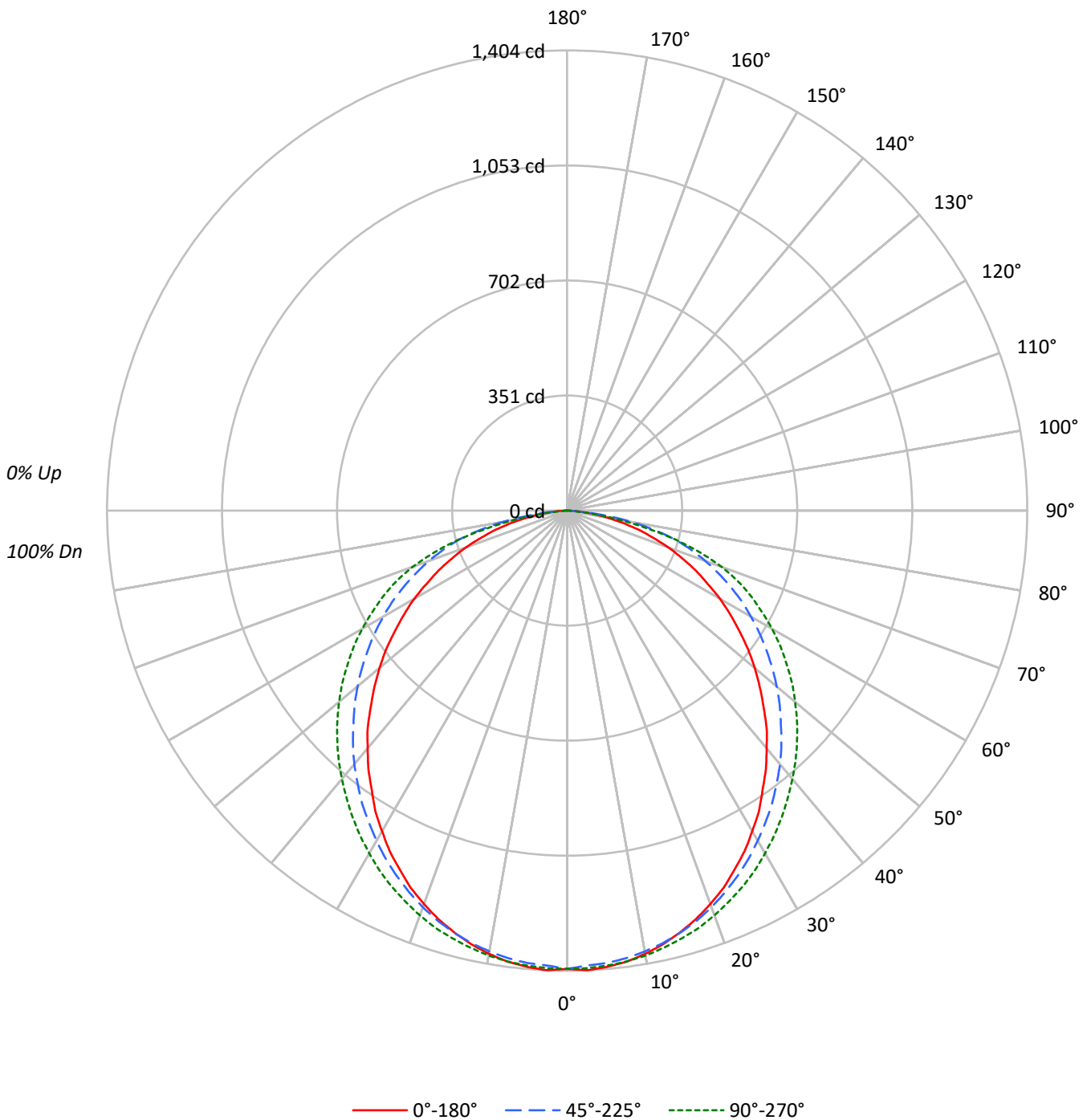
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3763	3763	3763
5°	3775	3743	3765
10°	3752	3732	3766
15°	3712	3714	3765
20°	3657	3688	3763
25°	3588	3652	3760
30°	3510	3614	3752
35°	3416	3583	3749
40°	3326	3548	3755
45°	3224	3510	3775
50°	3130	3494	3800
55°	3011	3482	3834
60°	2903	3488	3887
65°	2755	3498	3948
70°	2585	3525	3945
75°	2344	3557	3566
80°	1922	3071	2538
85°	1426	1454	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	3.3
10°-20°	378.0	9.3
20°-30°	569.4	14.0
30°-40°	683.3	16.8
40°-50°	712.2	17.5
50°-60°	659.3	16.2
60°-70°	532.7	13.1
70°-80°	324.8	8.0
80°-90°	67.1	1.7
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°	1079.7	26.6
0°-40°	1763.0	43.4
0°-60°	3134.5	77.2
0°-90°	4059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1397	1394	1386	1396	1394	133
15°	1332	1333	1333	1351	1351	376
25°	1208	1216	1230	1261	1266	557
35°	1040	1056	1091	1130	1141	651
45°	847	872	922	974	992	655
55°	642	675	742	800	817	575
65°	433	475	549	605	620	428
75°	225	275	342	348	343	237
85°	46	69	47	26	19	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1398.3	1398.3	1398.3	1398.3	1398.3
2.5°	1403.8	1399.2	1389.3	1399.2	1397.4
5°	1397.4	1393.8	1385.7	1395.6	1393.8
7.5°	1388.4	1384.8	1377.5	1389.3	1387.5
10°	1373.0	1371.2	1365.8	1379.3	1378.4
12.5°	1354.9	1354.0	1351.3	1366.7	1365.8
15°	1332.3	1333.2	1333.2	1351.3	1351.3
17.5°	1306.9	1308.7	1312.4	1332.3	1335.0
20°	1277.1	1280.7	1287.9	1310.5	1314.2
22.5°	1246.3	1249.0	1259.9	1287.0	1290.6
25°	1208.3	1215.5	1230.0	1260.8	1266.2
27.5°	1172.1	1178.4	1198.3	1230.0	1239.0
30°	1129.5	1139.5	1163.0	1197.4	1207.4
32.5°	1088.8	1099.7	1126.8	1166.6	1175.7
35°	1039.9	1056.2	1090.6	1130.4	1141.3
37.5°	995.6	1011.0	1049.9	1093.3	1106.0
40°	946.7	965.7	1010.1	1056.2	1068.9
42.5°	901.5	919.6	967.5	1014.6	1031.8
45°	847.1	872.5	922.3	973.9	992.0
47.5°	797.4	822.7	879.7	934.9	951.2
50°	747.6	774.7	834.5	891.5	907.8
52.5°	696.0	725.0	789.2	846.2	865.3
55°	641.7	675.2	742.2	800.1	817.3
57.5°	590.1	624.5	696.0	754.8	772.0
60°	539.4	574.7	648.0	704.1	722.2
62.5°	483.3	524.9	601.0	656.2	669.8
65°	432.6	475.2	549.4	604.6	620.0
67.5°	379.2	425.4	499.6	550.3	564.8
70°	328.5	376.5	448.0	495.1	501.4
72.5°	274.2	323.1	395.5	425.4	425.4
75°	225.4	275.1	342.1	347.5	343.0
77.5°	172.0	227.2	270.6	259.8	248.9
80°	124.0	178.3	198.2	178.3	163.8
82.5°	83.3	129.4	119.5	95.0	84.2
85°	46.2	68.8	47.1	26.2	19.0
87.5°	17.2	15.4	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)