

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: P275489

Luminaire Tested: **14CZ2-39-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275489  
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: 14CZ2-39-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3961.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 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

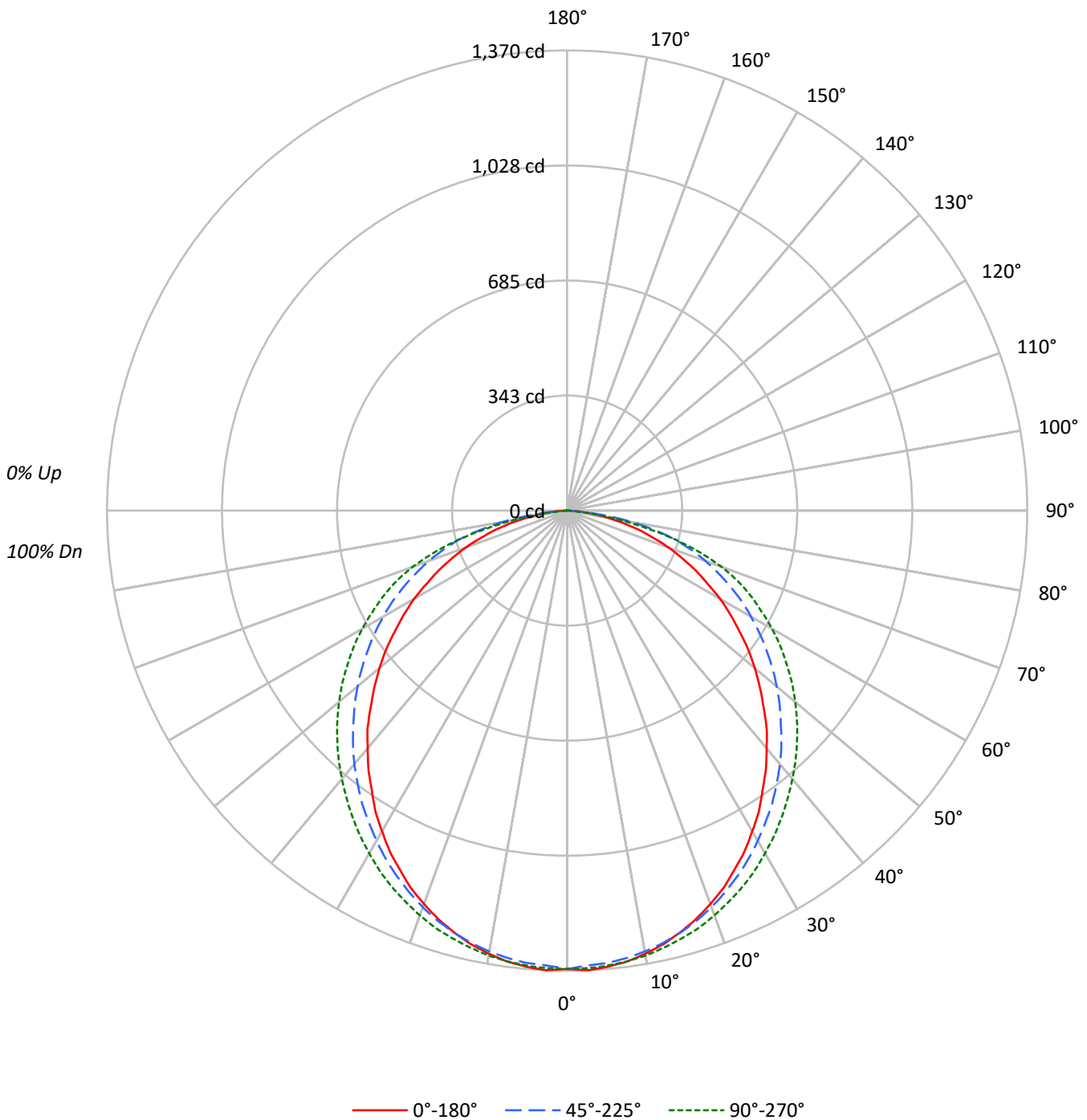
Input Watts (W): 31.713  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3672	3672	3672
5°	3684	3653	3674
10°	3661	3642	3675
15°	3622	3624	3673
20°	3569	3599	3672
25°	3501	3564	3669
30°	3425	3526	3661
35°	3334	3496	3659
40°	3245	3463	3664
45°	3146	3425	3684
50°	3054	3409	3709
55°	2938	3398	3742
60°	2833	3404	3793
65°	2688	3414	3852
70°	2522	3440	3850
75°	2286	3472	3480
80°	1875	2997	2478
85°	1389	1417	571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.1	3.3
10°-20°	368.9	9.3
20°-30°	555.6	14.0
30°-40°	666.8	16.8
40°-50°	695.0	17.5
50°-60°	643.4	16.2
60°-70°	519.8	13.1
70°-80°	317.0	8.0
80°-90°	65.4	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°	1053.6	26.6
0°-40°	1720.4	43.4
0°-60°	3058.8	77.2
0°-90°	3961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1364	1360	1352	1362	1360	129
15°	1300	1301	1301	1319	1319	366
25°	1179	1186	1200	1230	1236	543
35°	1015	1031	1064	1103	1114	636
45°	827	851	900	950	968	639
55°	626	659	724	781	798	561
65°	422	464	536	590	605	417
75°	220	268	334	339	335	231
85°	45	67	46	26	18	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1364.6	1364.6	1364.6	1364.6	1364.6
2.5°	1369.9	1365.5	1355.7	1365.5	1363.7
5°	1363.7	1360.2	1352.2	1361.9	1360.2
7.5°	1354.9	1351.3	1344.3	1355.7	1354.0
10°	1339.8	1338.1	1332.8	1346.0	1345.1
12.5°	1322.2	1321.3	1318.6	1333.7	1332.8
15°	1300.1	1301.0	1301.0	1318.6	1318.6
17.5°	1275.4	1277.1	1280.7	1300.1	1302.8
20°	1246.2	1249.8	1256.8	1278.9	1282.4
22.5°	1216.2	1218.8	1229.4	1255.9	1259.5
25°	1179.1	1186.2	1200.3	1230.3	1235.6
27.5°	1143.8	1150.0	1169.4	1200.3	1209.1
30°	1102.3	1112.0	1134.9	1168.5	1178.2
32.5°	1062.5	1073.1	1099.6	1138.5	1147.3
35°	1014.8	1030.7	1064.3	1103.1	1113.7
37.5°	971.5	986.6	1024.5	1066.9	1079.3
40°	923.8	942.4	985.7	1030.7	1043.1
42.5°	879.7	897.4	944.2	990.1	1006.9
45°	826.7	851.4	900.0	950.3	968.0
47.5°	778.1	802.8	858.5	912.4	928.3
50°	729.5	756.0	814.3	870.0	885.9
52.5°	679.2	707.5	770.2	825.8	844.4
55°	626.2	658.9	724.2	780.8	797.5
57.5°	575.9	609.4	679.2	736.6	753.4
60°	526.4	560.8	632.4	687.1	704.8
62.5°	471.6	512.3	586.5	640.3	653.6
65°	422.2	463.7	536.1	590.0	605.0
67.5°	370.1	415.1	487.5	537.0	551.1
70°	320.6	367.4	437.2	483.1	489.3
72.5°	267.6	315.3	386.0	415.1	415.1
75°	219.9	268.5	333.9	339.2	334.7
77.5°	167.8	221.7	264.1	253.5	242.9
80°	121.0	174.0	193.4	174.0	159.9
82.5°	81.3	126.3	116.6	92.7	82.1
85°	45.0	67.1	45.9	25.6	18.5
87.5°	16.8	15.0	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)