

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: P275575

Luminaire Tested: **14CZ2-35-S-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275575  
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: 14CZ2-35-S-UNV-L83050-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3734.0 lumens  
Efficiency: N/A  
Efficacy: 129.9 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

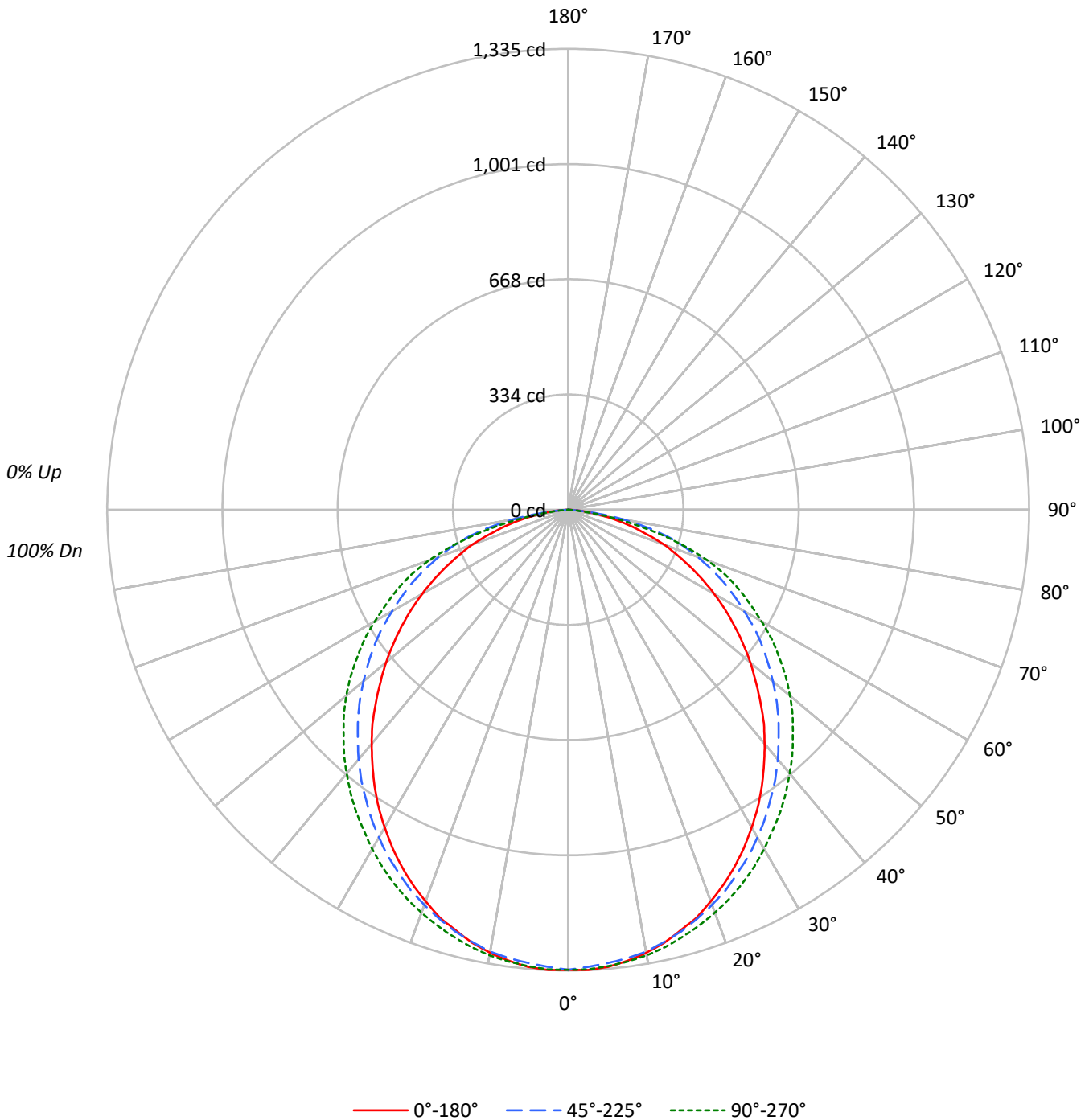
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3587	3587	3587
5°	3591	3561	3586
10°	3562	3551	3582
15°	3512	3523	3569
20°	3457	3489	3558
25°	3386	3447	3545
30°	3302	3406	3526
35°	3211	3357	3515
40°	3108	3317	3505
45°	2994	3276	3502
50°	2883	3240	3511
55°	2762	3214	3500
60°	2631	3168	3477
65°	2476	3160	3477
70°	2330	3131	3379
75°	2021	3061	2887
80°	1635	2467	1922
85°	1087	858	571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.9	3.4
10°-20°	358.2	9.6
20°-30°	537.3	14.4
30°-40°	640.9	17.2
40°-50°	662.6	17.7
50°-60°	604.9	16.2
60°-70°	476.1	12.7
70°-80°	277.1	7.4
80°-90°	51.1	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°	1021.3	27.4
0°-40°	1662.2	44.5
0°-60°	2929.8	78.5
0°-90°	3734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1329	1326	1318	1329	1327	126
15°	1261	1263	1264	1281	1281	356
25°	1140	1146	1161	1189	1194	525
35°	978	990	1022	1061	1070	611
45°	787	813	861	909	920	608
55°	589	620	685	735	746	526
65°	389	430	496	535	546	386
75°	194	241	294	289	278	207
85°	35	50	28	22	18	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1334.8	1331.1	1325.6	1334.8	1333.0
5°	1329.3	1325.6	1318.2	1329.3	1327.4
7.5°	1318.2	1314.5	1310.8	1321.9	1320.0
10°	1303.4	1301.5	1299.7	1312.6	1310.8
12.5°	1284.8	1284.8	1283.0	1297.8	1297.8
15°	1260.8	1262.6	1264.5	1281.1	1281.1
17.5°	1238.6	1236.7	1242.3	1260.8	1262.6
20°	1207.1	1210.8	1218.2	1240.4	1242.3
22.5°	1175.6	1179.3	1192.3	1214.5	1220.0
25°	1140.4	1146.0	1160.8	1188.6	1194.1
27.5°	1103.4	1110.8	1131.2	1160.8	1166.4
30°	1062.7	1073.8	1096.0	1129.3	1134.9
32.5°	1021.9	1033.1	1060.8	1094.2	1101.6
35°	977.5	990.5	1021.9	1060.8	1070.1
37.5°	931.2	947.9	984.9	1023.8	1034.9
40°	884.9	903.5	944.2	984.9	997.9
42.5°	838.7	857.2	901.6	947.9	960.9
45°	786.8	812.7	860.9	909.0	920.1
47.5°	736.8	764.6	818.3	866.4	881.2
50°	688.7	716.5	773.9	823.9	838.7
52.5°	638.7	668.3	729.4	781.3	794.2
55°	588.7	620.2	685.0	735.0	746.1
57.5°	538.7	572.1	638.7	686.9	699.8
60°	488.8	523.9	588.7	636.9	646.1
62.5°	438.8	475.8	542.4	585.0	594.3
65°	388.8	429.5	496.2	535.0	546.1
67.5°	340.6	381.4	446.2	483.2	492.5
70°	296.2	333.2	398.0	425.8	429.5
72.5°	240.7	287.0	349.9	364.7	355.5
75°	194.4	240.7	294.4	288.8	277.7
77.5°	148.1	194.4	229.6	211.1	196.2
80°	105.5	151.8	159.2	131.4	124.0
82.5°	68.5	105.5	88.9	68.5	55.5
85°	35.2	50.0	27.8	22.2	18.5
87.5°	11.1	7.4	3.7	3.7	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)