

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: P275760

Luminaire Tested: **14CZ2-25-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-RDP-UNV-L93050-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1323.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

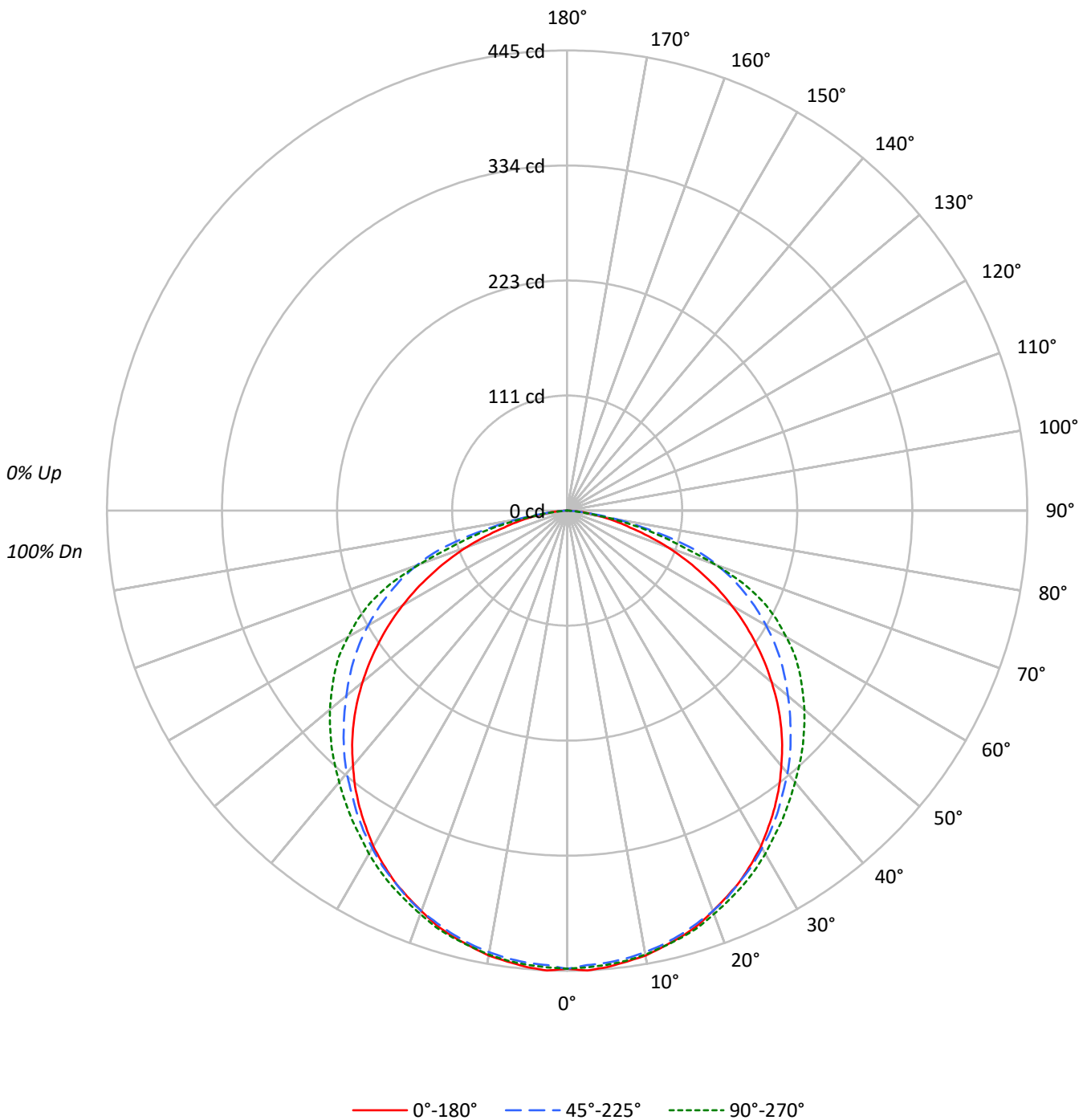
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1192	1192	1192
5°	1197	1186	1191
10°	1194	1185	1191
15°	1188	1183	1191
20°	1180	1180	1189
25°	1175	1175	1190
30°	1165	1171	1191
35°	1150	1167	1194
40°	1132	1165	1205
45°	1112	1163	1227
50°	1081	1168	1254
55°	1042	1182	1289
60°	990	1195	1318
65°	914	1210	1335
70°	813	1219	1194
75°	655	1096	955
80°	513	769	625
85°	352	222	161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	3.2
10°-20°	120.3	9.1
20°-30°	183.2	13.8
30°-40°	223.2	16.9
40°-50°	236.8	17.9
50°-60°	223.5	16.9
60°-70°	180.4	13.6
70°-80°	97.9	7.4
80°-90°	15.8	1.2
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°	345.5	26.1
0°-40°	568.7	43.0
0°-60°	1028.9	77.8
0°-90°	1323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	443	442	439	442	441	42
15°	427	426	424	428	428	120
25°	396	395	396	400	401	182
35°	350	352	355	362	364	219
45°	292	296	306	317	322	225
55°	222	231	252	268	275	198
65°	144	161	190	206	210	142
75°	63	92	105	95	92	69
85°	11	12	7	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	443.1	443.1	443.1	443.1	443.1
2.5°	445.2	443.1	440.0	443.1	442.1
5°	443.1	442.1	439.0	442.1	441.0
7.5°	440.0	440.0	436.9	439.0	439.0
10°	436.9	435.9	433.8	436.9	435.9
12.5°	431.7	430.7	429.7	432.8	431.7
15°	426.6	425.5	424.5	427.6	427.6
17.5°	420.4	419.4	418.3	422.4	422.4
20°	412.1	412.1	412.1	416.3	415.2
22.5°	403.9	403.9	404.9	409.0	408.0
25°	395.6	394.6	395.6	399.7	400.8
27.5°	385.3	386.3	387.3	391.5	392.5
30°	374.9	376.0	377.0	382.2	383.2
32.5°	362.5	364.6	366.7	372.9	372.9
35°	350.1	352.2	355.3	362.5	363.6
37.5°	336.7	338.8	342.9	351.2	353.2
40°	322.3	325.4	331.6	339.8	342.9
42.5°	307.8	311.9	319.2	328.5	332.6
45°	292.3	296.4	305.7	317.1	322.3
47.5°	275.8	280.9	292.3	306.8	310.9
50°	258.2	265.5	278.9	294.4	299.5
52.5°	240.7	248.9	265.5	282.0	287.1
55°	222.1	231.4	252.0	268.5	274.7
57.5°	203.5	213.8	237.6	255.1	261.3
60°	183.9	196.2	222.1	239.6	244.8
62.5°	164.2	178.7	206.6	224.1	228.3
65°	143.6	161.1	190.1	205.5	209.7
67.5°	123.9	144.6	173.5	184.9	184.9
70°	103.3	126.0	154.9	158.0	151.8
72.5°	82.6	108.5	134.3	122.9	117.7
75°	63.0	91.9	105.4	95.0	91.9
77.5°	47.5	74.4	74.4	68.2	66.1
80°	33.1	56.8	49.6	43.4	40.3
82.5°	21.7	32.0	25.8	20.7	17.6
85°	11.4	12.4	7.2	6.2	5.2
87.5°	4.1	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)