

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: P275787

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275787
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: 14CZ2-20-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1331.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

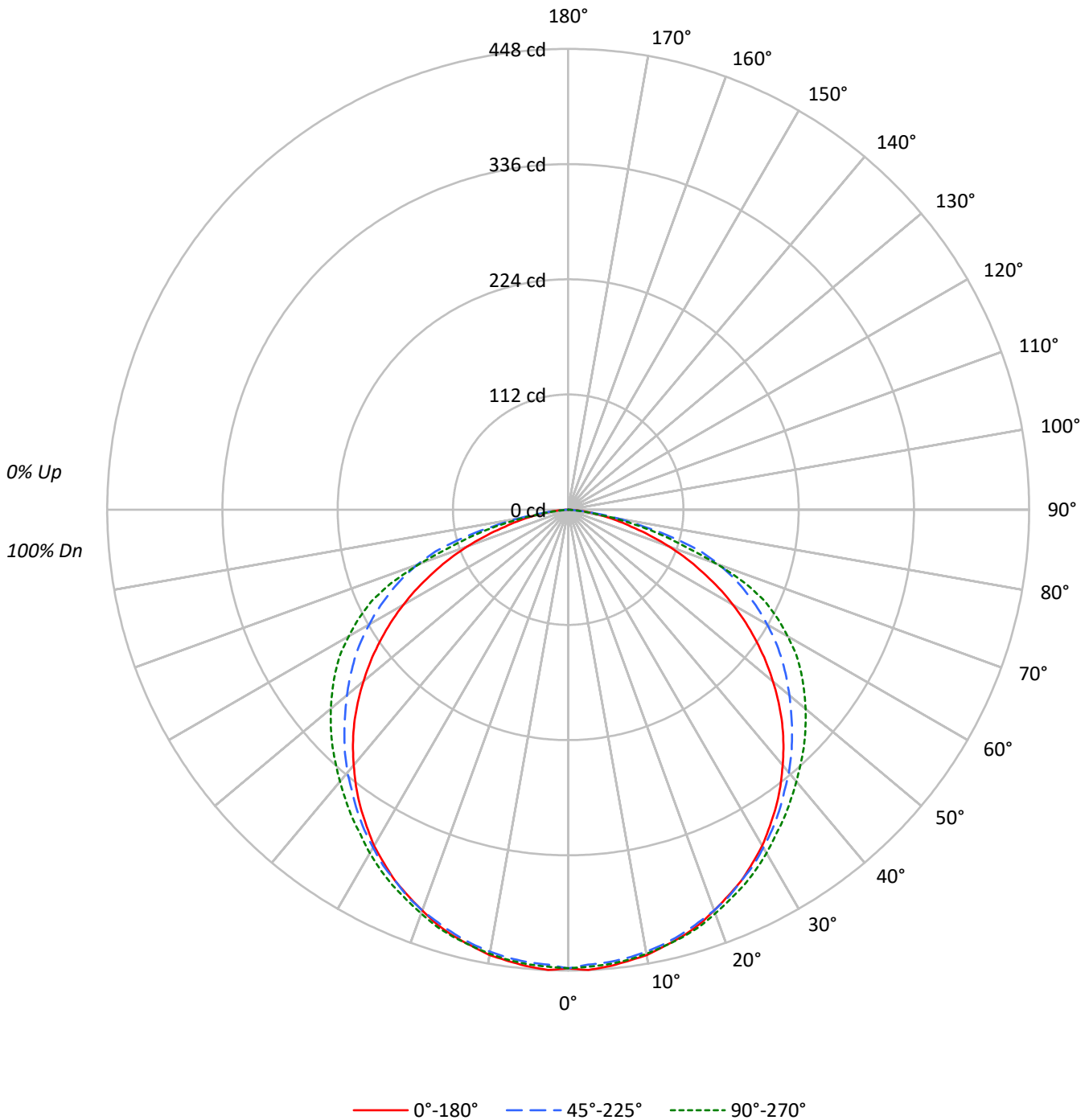
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1200	1200	1200
5°	1204	1193	1199
10°	1201	1192	1198
15°	1196	1190	1198
20°	1187	1187	1196
25°	1182	1182	1197
30°	1172	1179	1198
35°	1157	1174	1202
40°	1139	1172	1212
45°	1119	1171	1234
50°	1088	1175	1261
55°	1048	1189	1297
60°	996	1202	1326
65°	919	1217	1343
70°	817	1227	1202
75°	659	1102	962
80°	516	773	628
85°	352	225	161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	3.2
10°-20°	121.1	9.1
20°-30°	184.3	13.8
30°-40°	224.5	16.9
40°-50°	238.2	17.9
50°-60°	224.8	16.9
60°-70°	181.5	13.6
70°-80°	98.5	7.4
80°-90°	15.9	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°	347.6	26.1
0°-40°	572.1	43.0
0°-60°	1035.1	77.8
0°-90°	1331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	446	445	442	445	444	42
15°	429	428	427	430	430	121
25°	398	397	398	402	403	183
35°	352	354	358	365	366	220
45°	294	298	308	319	324	226
55°	223	233	254	270	276	200
65°	144	162	191	207	211	143
75°	63	92	106	96	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°	445.8	445.8	445.8	445.8	445.8
2.5°	447.9	445.8	442.7	445.8	444.7
5°	445.8	444.7	441.6	444.7	443.7
7.5°	442.7	442.7	439.6	441.6	441.6
10°	439.6	438.5	436.4	439.6	438.5
12.5°	434.4	433.3	432.3	435.4	434.4
15°	429.2	428.1	427.1	430.2	430.2
17.5°	422.9	421.9	420.8	425.0	425.0
20°	414.6	414.6	414.6	418.8	417.7
22.5°	406.3	406.3	407.3	411.5	410.5
25°	398.0	396.9	398.0	402.1	403.2
27.5°	387.6	388.6	389.7	393.8	394.9
30°	377.2	378.2	379.3	384.5	385.5
32.5°	364.7	366.8	368.9	375.1	375.1
35°	352.3	354.3	357.5	364.7	365.8
37.5°	338.8	340.8	345.0	353.3	355.4
40°	324.2	327.3	333.6	341.9	345.0
42.5°	309.7	313.8	321.1	330.4	334.6
45°	294.1	298.2	307.6	319.0	324.2
47.5°	277.4	282.6	294.1	308.6	312.8
50°	259.8	267.1	280.6	296.2	301.3
52.5°	242.1	250.4	267.1	283.7	288.9
55°	223.4	232.8	253.5	270.2	276.4
57.5°	204.7	215.1	239.0	256.7	262.9
60°	185.0	197.4	223.4	241.1	246.3
62.5°	165.2	179.8	207.8	225.5	229.6
65°	144.4	162.1	191.2	206.8	210.9
67.5°	124.7	145.5	174.6	186.0	186.0
70°	103.9	126.8	155.9	159.0	152.8
72.5°	83.1	109.1	135.1	123.7	118.5
75°	63.4	92.5	106.0	95.6	92.5
77.5°	47.8	74.8	74.8	68.6	66.5
80°	33.3	57.2	49.9	43.6	40.5
82.5°	21.8	32.2	26.0	20.8	17.7
85°	11.4	12.5	7.3	6.2	5.2
87.5°	4.2	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)