

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: P275854

Luminaire Tested: **14CZ2-25-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275854
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-L92765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1467.0 lumens
Efficiency: N/A
Efficacy: 78.1 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

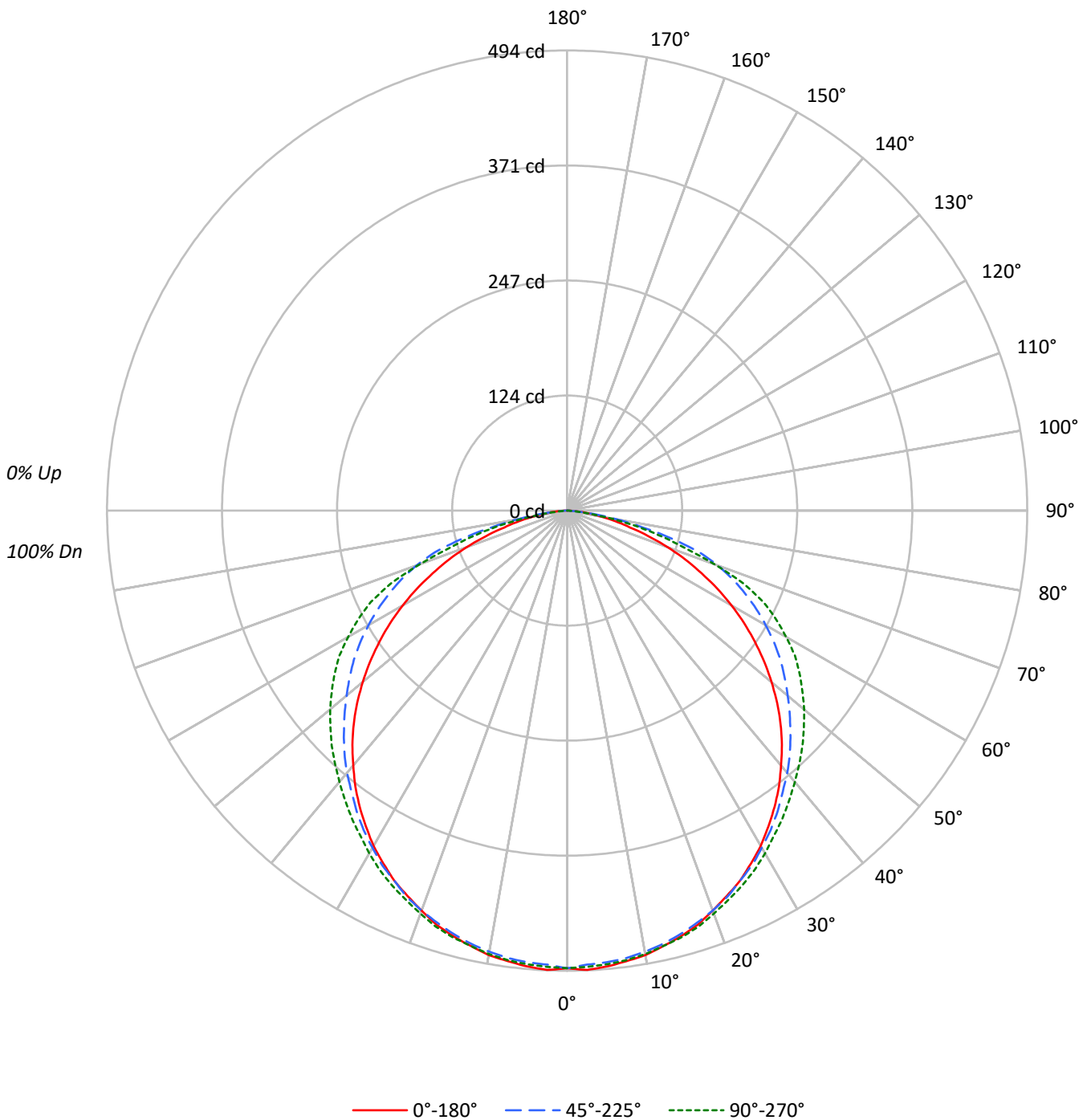
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1322	1322	1322
5°	1327	1315	1321
10°	1324	1314	1321
15°	1318	1311	1321
20°	1309	1309	1318
25°	1303	1303	1319
30°	1292	1299	1320
35°	1276	1294	1324
40°	1255	1291	1336
45°	1233	1290	1360
50°	1199	1294	1390
55°	1155	1311	1430
60°	1097	1325	1461
65°	1014	1342	1480
70°	901	1352	1325
75°	727	1214	1059
80°	567	852	693
85°	389	247	176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	3.2
10°-20°	133.4	9.1
20°-30°	203.2	13.8
30°-40°	247.5	16.9
40°-50°	262.5	17.9
50°-60°	247.8	16.9
60°-70°	200.0	13.6
70°-80°	108.5	7.4
80°-90°	17.6	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
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0°-30°	383.1	26.1
0°-40°	630.6	43.0
0°-60°	1140.9	77.8
0°-90°	1467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	491	490	487	490	489	47
15°	473	472	471	474	474	133
25°	439	438	439	443	444	202
35°	388	390	394	402	403	243
45°	324	329	339	352	357	250
55°	246	256	280	298	305	220
65°	159	179	211	228	232	158
75°	70	102	117	105	102	76
85°	13	14	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.3	491.3	491.3	491.3	491.3
2.5°	493.6	491.3	487.9	491.3	490.2
5°	491.3	490.2	486.8	490.2	489.0
7.5°	487.9	487.9	484.5	486.8	486.8
10°	484.5	483.3	481.0	484.5	483.3
12.5°	478.7	477.6	476.4	479.9	478.7
15°	473.0	471.9	470.7	474.2	474.2
17.5°	466.1	465.0	463.8	468.4	468.4
20°	457.0	457.0	457.0	461.6	460.4
22.5°	447.8	447.8	449.0	453.5	452.4
25°	438.7	437.5	438.7	443.2	444.4
27.5°	427.2	428.3	429.5	434.1	435.2
30°	415.7	416.9	418.0	423.8	424.9
32.5°	402.0	404.3	406.6	413.5	413.5
35°	388.3	390.5	394.0	402.0	403.1
37.5°	373.4	375.7	380.2	389.4	391.7
40°	357.3	360.8	367.6	376.8	380.2
42.5°	341.3	345.9	353.9	364.2	368.8
45°	324.1	328.7	339.0	351.6	357.3
47.5°	305.8	311.5	324.1	340.2	344.7
50°	286.3	294.3	309.2	326.4	332.1
52.5°	266.9	276.0	294.3	312.7	318.4
55°	246.2	256.5	279.5	297.8	304.7
57.5°	225.6	237.1	263.4	282.9	289.8
60°	203.9	217.6	246.2	265.7	271.4
62.5°	182.1	198.1	229.1	248.5	253.1
65°	159.2	178.7	210.7	227.9	232.5
67.5°	137.4	160.3	192.4	205.0	205.0
70°	114.5	139.7	171.8	175.2	168.4
72.5°	91.6	120.3	148.9	136.3	130.6
75°	69.9	101.9	116.8	105.4	101.9
77.5°	52.7	82.5	82.5	75.6	73.3
80°	36.6	63.0	55.0	48.1	44.7
82.5°	24.1	35.5	28.6	22.9	19.5
85°	12.6	13.7	8.0	6.9	5.7
87.5°	4.6	2.3	1.1	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)