

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: P258875

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1498.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

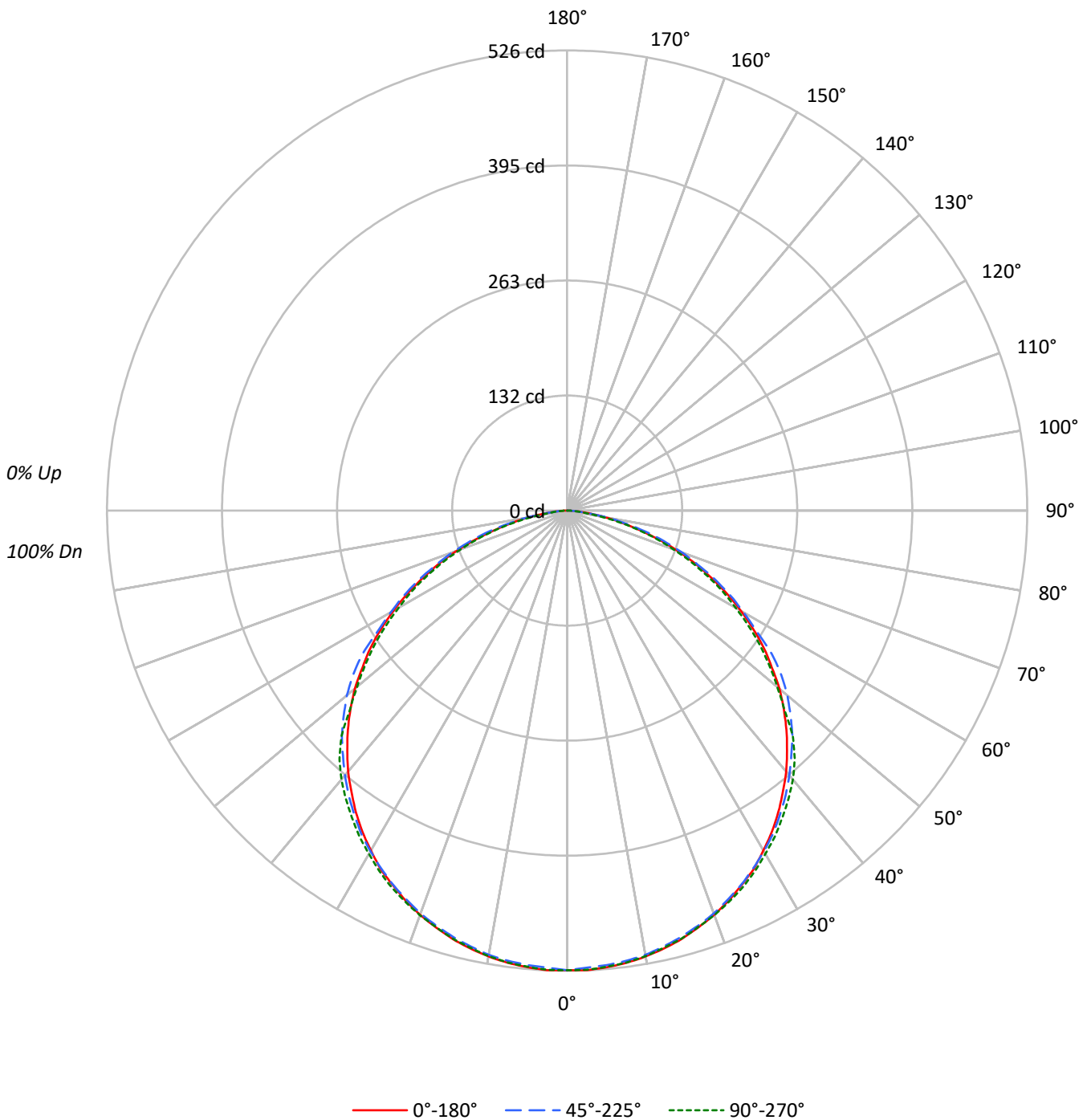
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1414	1414	1414
5°	1415	1408	1414
10°	1414	1409	1413
15°	1412	1405	1411
20°	1408	1404	1410
25°	1402	1400	1411
30°	1394	1397	1408
35°	1383	1394	1408
40°	1369	1388	1410
45°	1349	1386	1388
50°	1327	1376	1312
55°	1290	1340	1264
60°	1235	1253	1198
65°	1156	1188	1125
70°	1053	1095	1018
75°	879	960	863
80°	696	735	598
85°	451	392	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.3
10°-20°	142.8	9.5
20°-30°	218.1	14.6
30°-40°	265.9	17.7
40°-50°	278.4	18.6
50°-60°	247.7	16.5
60°-70°	182.7	12.2
70°-80°	94.4	6.3
80°-90°	18.3	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°	410.6	27.4
0°-40°	676.5	45.2
0°-60°	1202.5	80.3
0°-90°	1498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	525	525	525	525	525	
5°	524	523	521	523	523	50
15°	507	506	504	506	506	143
25°	472	472	472	475	475	218
35°	421	421	424	429	429	263
45°	354	357	364	368	365	273
55°	275	281	286	273	270	245
65°	182	194	186	180	177	180
75°	84	93	92	85	83	91
85°	15	16	13	12	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	525.4	525.4	525.4	525.4	525.4
2.5°	525.8	525.4	522.9	525.4	525.4
5°	523.9	523.4	521.4	523.4	523.4
7.5°	521.4	521.0	519.0	521.0	521.0
10°	517.5	517.1	515.6	517.5	517.1
12.5°	512.7	512.7	510.2	512.7	511.7
15°	506.8	506.3	504.4	506.3	506.3
17.5°	499.5	499.0	497.5	500.0	499.0
20°	491.7	491.2	490.2	492.6	492.2
22.5°	482.4	482.4	480.9	483.9	483.9
25°	472.1	472.1	471.6	475.1	475.1
27.5°	461.9	460.9	460.9	464.3	464.8
30°	448.7	448.7	449.7	453.6	453.1
32.5°	435.5	436.0	438.0	441.4	441.9
35°	420.9	421.4	424.3	429.2	428.7
37.5°	405.2	406.7	410.1	415.5	415.5
40°	389.6	390.6	395.0	400.9	401.3
42.5°	372.0	374.5	379.4	386.2	385.2
45°	354.5	356.9	364.2	367.7	364.7
47.5°	335.9	338.8	346.2	346.7	336.9
50°	316.9	320.3	328.6	318.8	313.5
52.5°	294.9	301.2	308.6	294.9	291.5
55°	274.9	280.7	285.6	273.4	269.5
57.5°	252.4	260.2	256.8	251.0	246.1
60°	229.5	237.8	232.9	227.0	222.6
62.5°	206.0	215.3	210.4	204.6	200.7
65°	181.6	194.3	186.5	180.2	176.7
67.5°	158.7	170.9	161.6	156.7	153.3
70°	133.8	144.0	139.2	132.8	129.4
72.5°	109.4	117.2	115.7	108.9	106.4
75°	84.5	93.3	92.3	85.0	83.0
77.5°	63.5	71.8	68.8	63.0	60.5
80°	44.9	50.3	47.4	40.5	38.6
82.5°	27.3	31.7	26.9	22.9	21.0
85°	14.6	16.1	12.7	11.7	11.2
87.5°	5.4	5.4	5.4	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)