

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: P258998

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258998
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-LD5-25-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1457.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

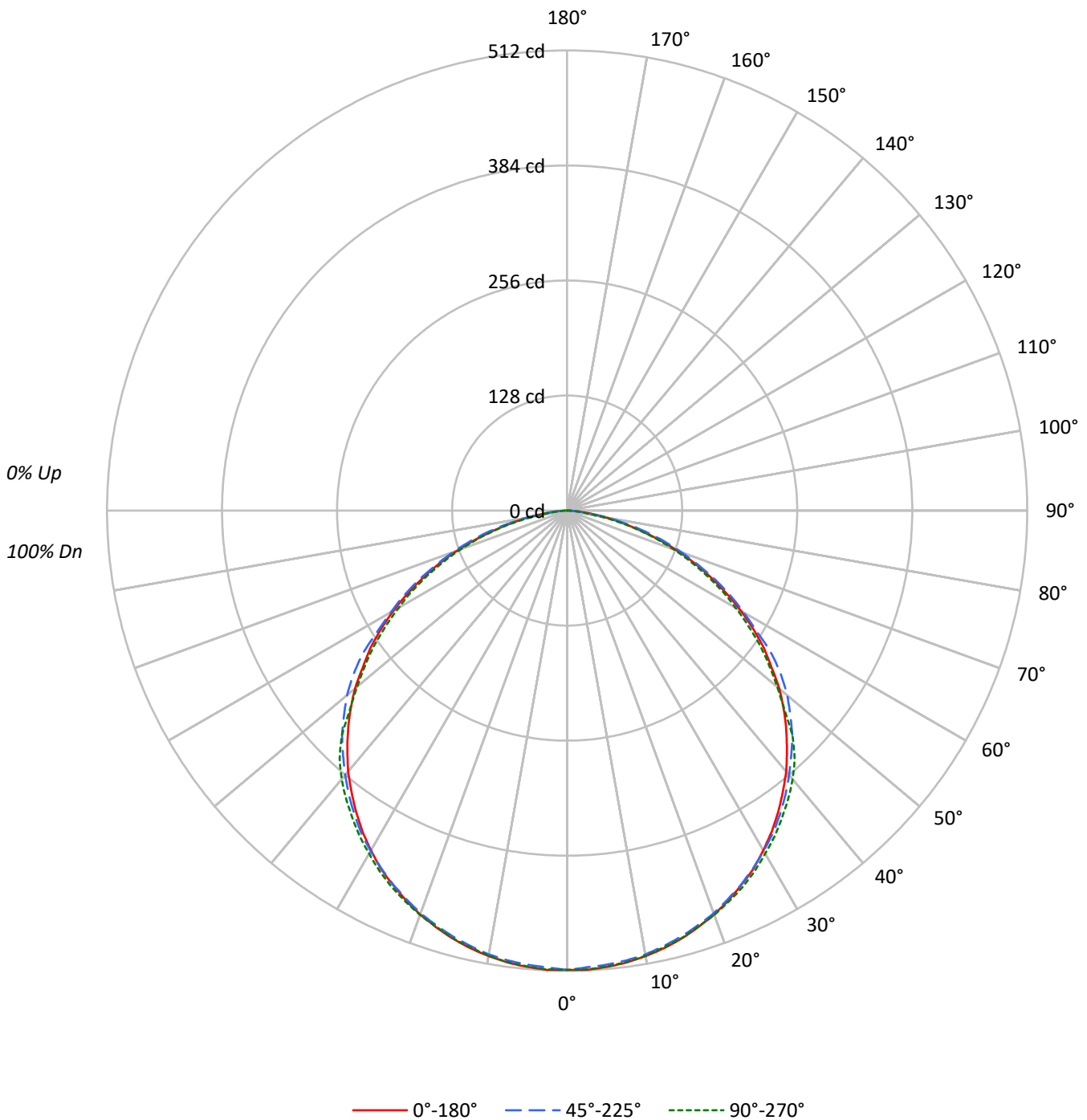
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1375	1375	1375
5°	1377	1370	1375
10°	1376	1370	1374
15°	1373	1367	1372
20°	1369	1365	1371
25°	1363	1362	1372
30°	1356	1359	1369
35°	1345	1356	1370
40°	1331	1350	1371
45°	1312	1348	1350
50°	1290	1338	1276
55°	1255	1303	1230
60°	1201	1219	1165
65°	1125	1155	1095
70°	1024	1065	990
75°	855	934	839
80°	677	714	581
85°	438	380	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.3
10°-20°	138.9	9.5
20°-30°	212.1	14.6
30°-40°	258.6	17.7
40°-50°	270.8	18.6
50°-60°	240.9	16.5
60°-70°	177.7	12.2
70°-80°	91.8	6.3
80°-90°	17.8	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°	399.4	27.4
0°-40°	658.0	45.2
0°-60°	1169.6	80.3
0°-90°	1457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	510	509	507	509	509	48
15°	493	492	491	492	492	139
25°	459	459	459	462	462	212
35°	409	410	413	417	417	256
45°	345	347	354	358	355	266
55°	267	273	278	266	262	238
65°	177	189	181	175	172	175
75°	82	91	90	83	81	89
85°	14	16	12	11	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	511.0	511.0	511.0	511.0	511.0
2.5°	511.5	511.0	508.6	511.0	511.0
5°	509.6	509.1	507.2	509.1	509.1
7.5°	507.2	506.7	504.8	506.7	506.7
10°	503.4	502.9	501.5	503.4	502.9
12.5°	498.6	498.6	496.3	498.6	497.7
15°	492.9	492.5	490.6	492.5	492.5
17.5°	485.8	485.3	483.9	486.3	485.3
20°	478.2	477.7	476.8	479.2	478.7
22.5°	469.2	469.2	467.8	470.6	470.6
25°	459.2	459.2	458.7	462.1	462.1
27.5°	449.2	448.3	448.3	451.6	452.1
30°	436.4	436.4	437.4	441.2	440.7
32.5°	423.6	424.1	426.0	429.3	429.8
35°	409.4	409.8	412.7	417.4	416.9
37.5°	394.2	395.6	398.9	404.1	404.1
40°	379.0	379.9	384.2	389.9	390.4
42.5°	361.9	364.2	369.0	375.6	374.7
45°	344.8	347.1	354.3	357.6	354.7
47.5°	326.7	329.6	336.7	337.2	327.7
50°	308.2	311.5	319.6	310.1	304.9
52.5°	286.8	293.0	300.1	286.8	283.5
55°	267.4	273.1	277.8	265.9	262.1
57.5°	245.5	253.1	249.8	244.1	239.3
60°	223.2	231.3	226.5	220.8	216.5
62.5°	200.4	209.4	204.7	199.0	195.2
65°	176.7	189.0	181.4	175.2	171.9
67.5°	154.3	166.2	157.2	152.4	149.1
70°	130.1	140.1	135.3	129.2	125.8
72.5°	106.4	114.0	112.5	105.9	103.5
75°	82.2	90.7	89.8	82.6	80.7
77.5°	61.7	69.8	67.0	61.3	58.9
80°	43.7	48.9	46.1	39.4	37.5
82.5°	26.6	30.9	26.1	22.3	20.4
85°	14.2	15.7	12.3	11.4	10.9
87.5°	5.2	5.2	5.2	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)