

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: P258999

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258999
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1495.0 lumens
Efficiency: N/A
Efficacy: 80.4 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

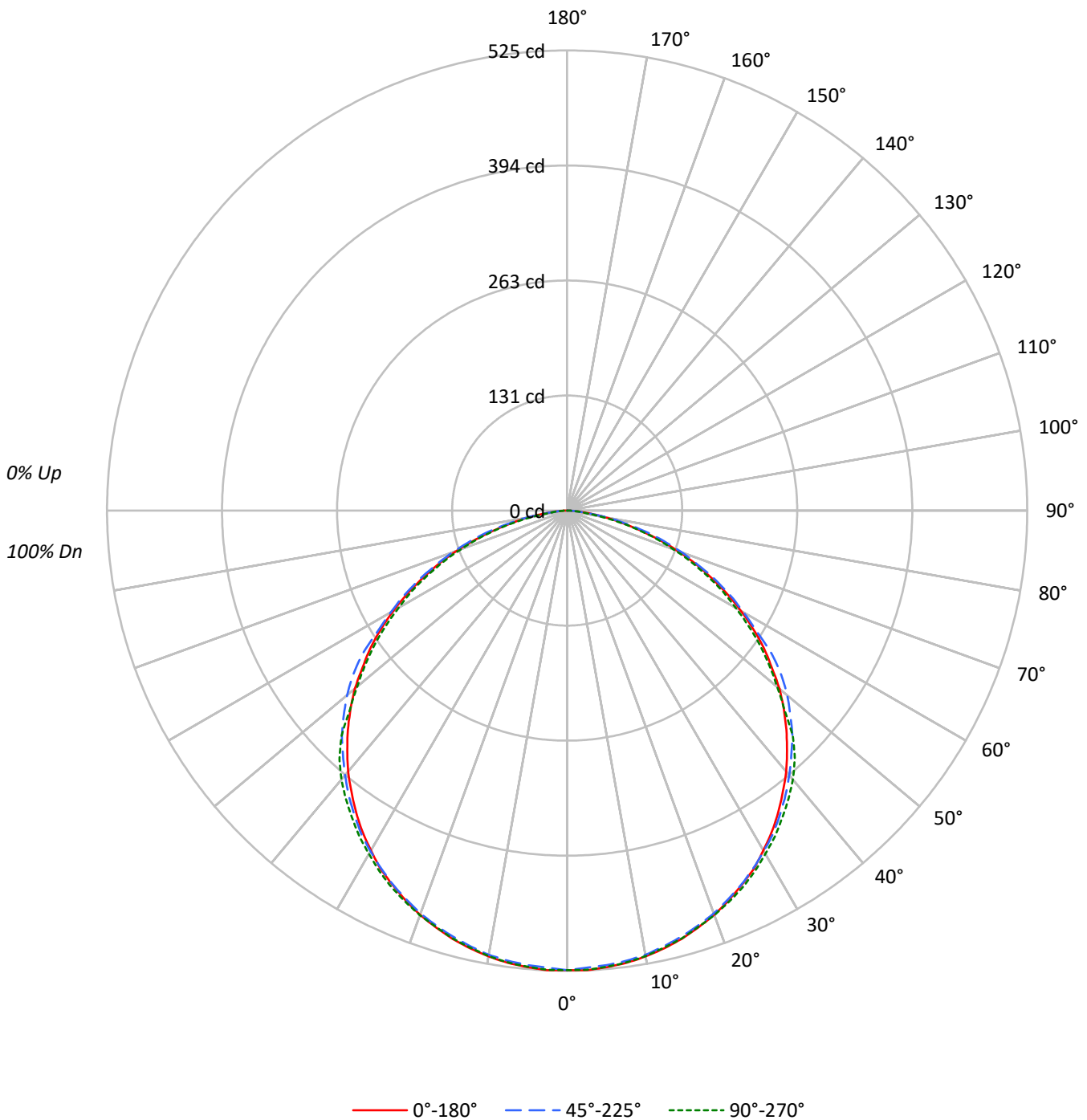
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1411	1411	1411
5°	1412	1406	1411
10°	1411	1406	1410
15°	1409	1402	1408
20°	1405	1401	1407
25°	1399	1398	1408
30°	1391	1395	1405
35°	1380	1391	1405
40°	1366	1385	1407
45°	1346	1383	1385
50°	1324	1373	1310
55°	1287	1338	1262
60°	1232	1251	1196
65°	1154	1185	1123
70°	1050	1093	1016
75°	876	958	861
80°	694	733	597
85°	451	392	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	3.3
10°-20°	142.6	9.5
20°-30°	217.6	14.6
30°-40°	265.3	17.7
40°-50°	277.8	18.6
50°-60°	247.2	16.5
60°-70°	182.3	12.2
70°-80°	94.2	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°	409.8	27.4
0°-40°	675.1	45.2
0°-60°	1200.1	80.3
0°-90°	1495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	523	522	520	522	522	50
15°	506	505	503	505	505	143
25°	471	471	471	474	474	217
35°	420	420	423	428	428	263
45°	354	356	364	367	364	273
55°	274	280	285	273	269	244
65°	181	194	186	180	176	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°	524.3	524.3	524.3	524.3	524.3
2.5°	524.8	524.3	521.9	524.3	524.3
5°	522.8	522.4	520.4	522.4	522.4
7.5°	520.4	519.9	518.0	519.9	519.9
10°	516.5	516.0	514.6	516.5	516.0
12.5°	511.6	511.6	509.2	511.6	510.7
15°	505.8	505.3	503.3	505.3	505.3
17.5°	498.5	498.0	496.5	499.0	498.0
20°	490.7	490.2	489.2	491.7	491.2
22.5°	481.4	481.4	480.0	482.9	482.9
25°	471.2	471.2	470.7	474.1	474.1
27.5°	461.0	460.0	460.0	463.4	463.9
30°	447.8	447.8	448.8	452.7	452.2
32.5°	434.6	435.1	437.1	440.5	441.0
35°	420.0	420.5	423.4	428.3	427.8
37.5°	404.4	405.9	409.3	414.7	414.7
40°	388.8	389.8	394.2	400.0	400.5
42.5°	371.3	373.7	378.6	385.4	384.5
45°	353.8	356.2	363.5	366.9	364.0
47.5°	335.2	338.2	345.5	346.0	336.2
50°	316.2	319.6	327.9	318.2	312.8
52.5°	294.3	300.6	308.0	294.3	290.9
55°	274.3	280.2	285.1	272.9	269.0
57.5°	251.9	259.7	256.3	250.5	245.6
60°	229.0	237.3	232.4	226.6	222.2
62.5°	205.6	214.9	210.0	204.2	200.3
65°	181.3	193.9	186.1	179.8	176.4
67.5°	158.4	170.5	161.3	156.4	153.0
70°	133.5	143.7	138.9	132.5	129.1
72.5°	109.1	116.9	115.5	108.7	106.2
75°	84.3	93.1	92.1	84.8	82.8
77.5°	63.3	71.6	68.7	62.9	60.4
80°	44.8	50.2	47.3	40.4	38.5
82.5°	27.3	31.7	26.8	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)