

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: P259000

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259000
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1525.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

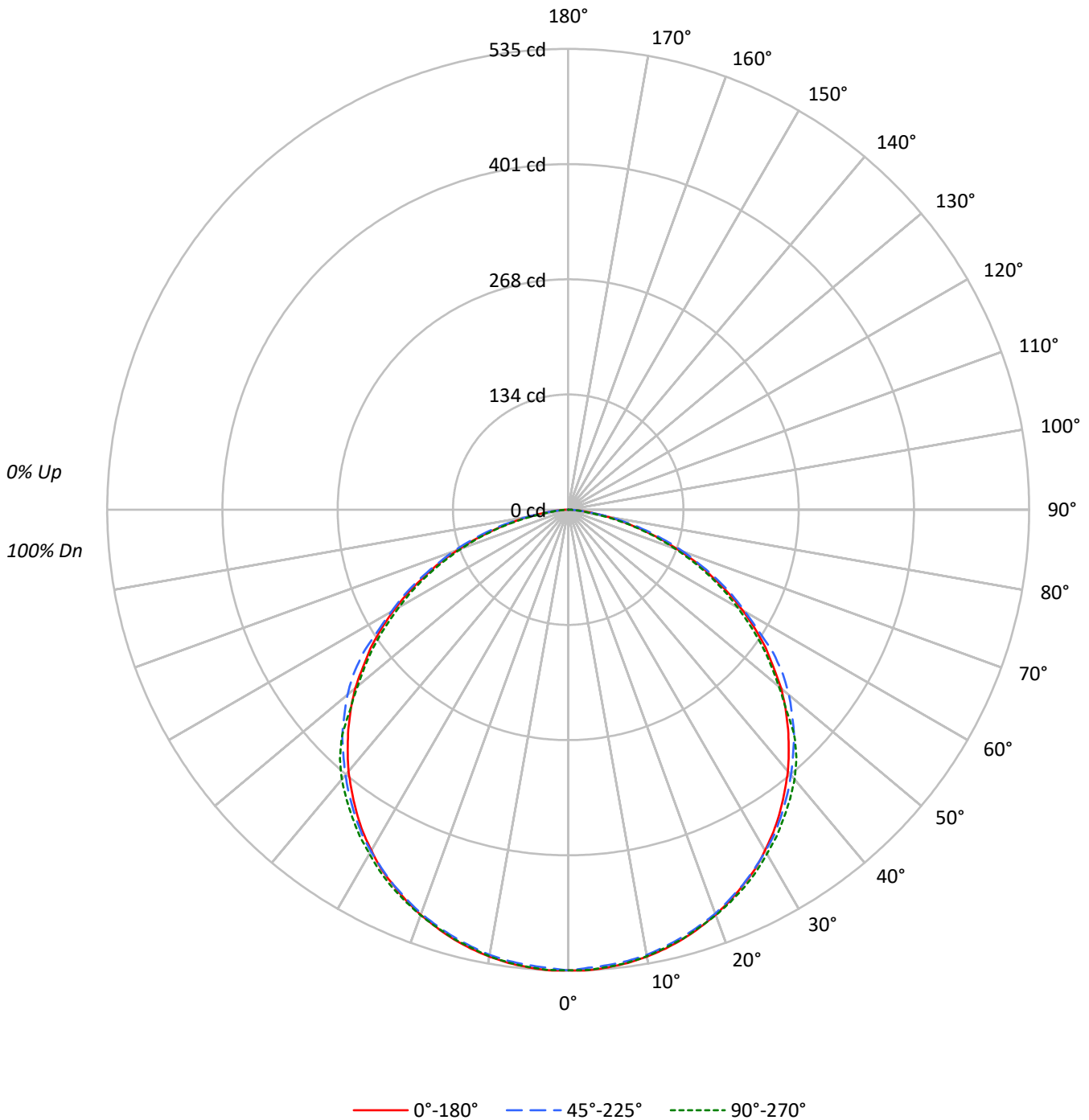
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1439	1439	1439
5°	1441	1434	1439
10°	1440	1434	1438
15°	1437	1431	1436
20°	1433	1429	1435
25°	1427	1425	1436
30°	1419	1423	1433
35°	1408	1419	1434
40°	1393	1413	1435
45°	1373	1411	1413
50°	1351	1400	1336
55°	1313	1364	1287
60°	1257	1276	1220
65°	1177	1209	1145
70°	1072	1115	1036
75°	894	976	879
80°	708	747	609
85°	460	398	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	3.3
10°-20°	145.4	9.5
20°-30°	222.0	14.6
30°-40°	270.7	17.7
40°-50°	283.4	18.6
50°-60°	252.1	16.5
60°-70°	186.0	12.2
70°-80°	96.1	6.3
80°-90°	18.7	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°	418.0	27.4
0°-40°	688.7	45.2
0°-60°	1224.2	80.3
0°-90°	1525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	533	533	531	533	533	51
15°	516	515	514	515	515	146
25°	481	481	480	484	484	222
35°	428	429	432	437	436	268
45°	361	363	371	374	371	278
55°	280	286	291	278	274	249
65°	185	198	190	183	180	183
75°	86	95	94	86	84	93
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°	534.8	534.8	534.8	534.8	534.8
2.5°	535.3	534.8	532.3	534.8	534.8
5°	533.3	532.8	530.8	532.8	532.8
7.5°	530.8	530.3	528.4	530.3	530.3
10°	526.9	526.4	524.9	526.9	526.4
12.5°	521.9	521.9	519.4	521.9	520.9
15°	515.9	515.4	513.5	515.4	515.4
17.5°	508.5	508.0	506.5	509.0	508.0
20°	500.5	500.0	499.0	501.5	501.0
22.5°	491.1	491.1	489.6	492.6	492.6
25°	480.6	480.6	480.1	483.6	483.6
27.5°	470.2	469.2	469.2	472.7	473.2
30°	456.8	456.8	457.8	461.8	461.3
32.5°	443.4	443.9	445.9	449.3	449.8
35°	428.5	429.0	431.9	436.9	436.4
37.5°	412.5	414.0	417.5	423.0	423.0
40°	396.6	397.6	402.1	408.1	408.6
42.5°	378.8	381.2	386.2	393.2	392.2
45°	360.9	363.3	370.8	374.3	371.3
47.5°	342.0	345.0	352.4	352.9	343.0
50°	322.6	326.1	334.5	324.6	319.1
52.5°	300.2	306.7	314.1	300.2	296.7
55°	279.8	285.8	290.8	278.3	274.4
57.5°	257.0	264.9	261.4	255.5	250.5
60°	233.6	242.1	237.1	231.1	226.7
62.5°	209.8	219.2	214.2	208.3	204.3
65°	184.9	197.8	189.9	183.4	179.9
67.5°	161.5	174.0	164.5	159.6	156.1
70°	136.2	146.6	141.7	135.2	131.7
72.5°	111.3	119.3	117.8	110.8	108.4
75°	86.0	94.9	93.9	86.5	84.5
77.5°	64.6	73.1	70.1	64.1	61.6
80°	45.7	51.2	48.2	41.3	39.3
82.5°	27.8	32.3	27.3	23.4	21.4
85°	14.9	16.4	12.9	11.9	11.4
87.5°	5.5	5.5	5.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)