

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: P259017

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259017
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-LD5-35-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: 2148.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

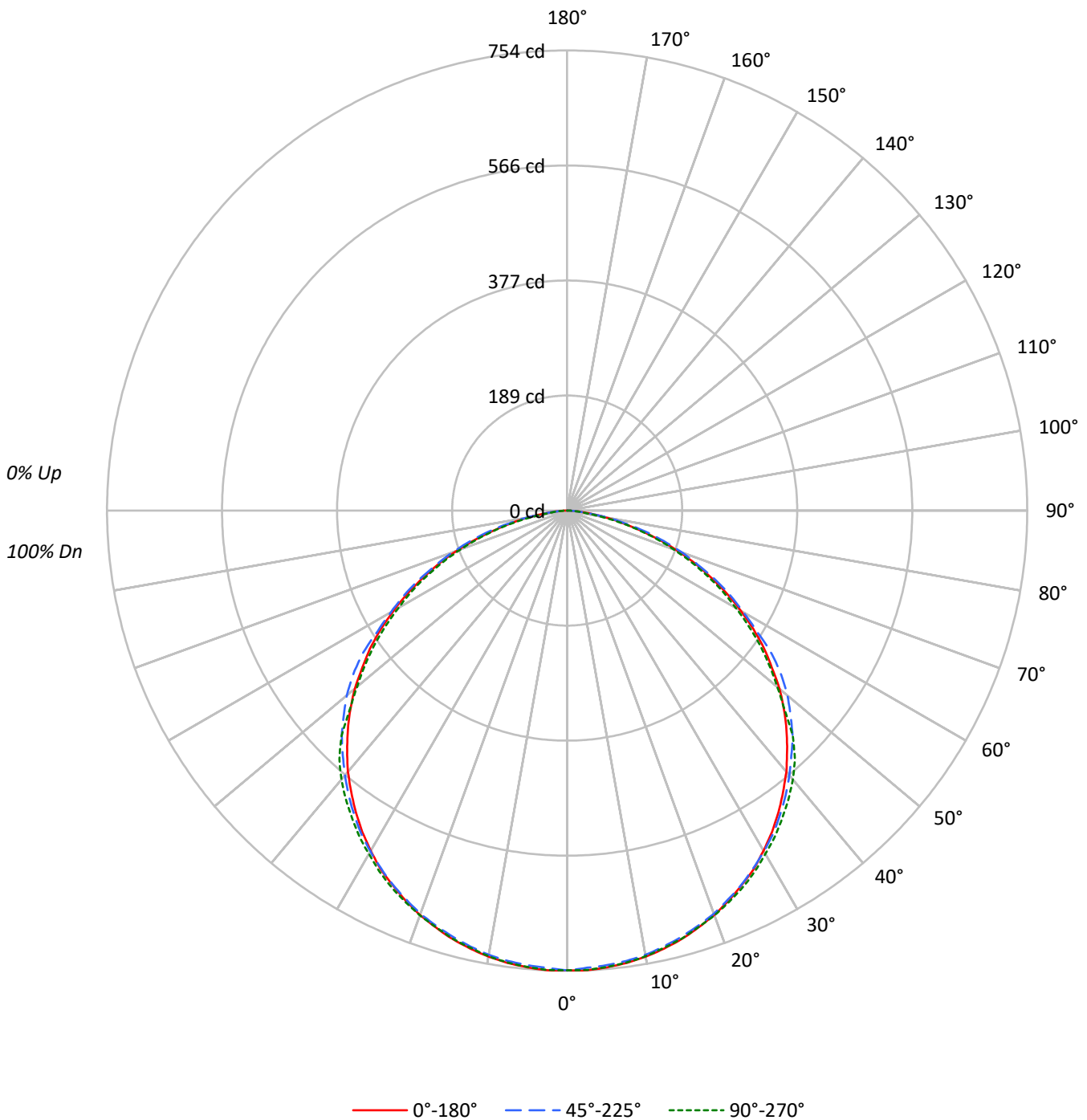
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2027	2027	2027
5°	2029	2020	2027
10°	2028	2020	2026
15°	2025	2015	2023
20°	2019	2013	2021
25°	2010	2008	2023
30°	1999	2004	2019
35°	1983	1999	2019
40°	1963	1990	2022
45°	1934	1988	1990
50°	1902	1973	1882
55°	1849	1922	1813
60°	1771	1797	1718
65°	1658	1703	1613
70°	1509	1570	1459
75°	1259	1376	1237
80°	998	1052	857
85°	648	562	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.3
10°-20°	204.8	9.5
20°-30°	312.7	14.6
30°-40°	381.2	17.7
40°-50°	399.2	18.6
50°-60°	355.1	16.5
60°-70°	262.0	12.2
70°-80°	135.4	6.3
80°-90°	26.3	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°	588.8	27.4
0°-40°	970.0	45.2
0°-60°	1724.4	80.3
0°-90°	2148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	751	750	748	750	750	71
15°	727	726	723	726	726	205
25°	677	677	676	681	681	312
35°	604	604	608	615	615	377
45°	508	512	522	527	523	392
55°	394	403	410	392	386	351
65°	260	279	267	258	253	258
75°	121	134	132	122	119	131
85°	21	23	18	17	16	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.3	753.3	753.3	753.3	753.3
2.5°	754.0	753.3	749.8	753.3	753.3
5°	751.2	750.5	747.7	750.5	750.5
7.5°	747.7	747.0	744.2	747.0	747.0
10°	742.1	741.4	739.3	742.1	741.4
12.5°	735.1	735.1	731.6	735.1	733.7
15°	726.7	726.0	723.2	726.0	726.0
17.5°	716.2	715.5	713.4	716.9	715.5
20°	705.0	704.3	702.9	706.4	705.7
22.5°	691.7	691.7	689.6	693.8	693.8
25°	677.0	677.0	676.3	681.2	681.2
27.5°	662.3	660.9	660.9	665.8	666.5
30°	643.4	643.4	644.8	650.4	649.7
32.5°	624.5	625.2	628.0	632.9	633.6
35°	603.5	604.2	608.4	615.4	614.7
37.5°	581.1	583.2	588.1	595.8	595.8
40°	558.7	560.1	566.4	574.8	575.5
42.5°	533.5	537.0	544.0	553.8	552.4
45°	508.3	511.8	522.3	527.2	523.0
47.5°	481.7	485.9	496.4	497.1	483.1
50°	454.4	459.3	471.2	457.2	449.5
52.5°	422.9	432.0	442.5	422.9	418.0
55°	394.2	402.6	409.6	392.1	386.5
57.5°	362.0	373.2	368.3	359.9	352.9
60°	329.0	341.0	333.9	325.5	319.2
62.5°	295.4	308.7	301.7	293.3	287.7
65°	260.4	278.6	267.4	258.3	253.4
67.5°	227.5	245.0	231.7	224.7	219.8
70°	191.8	206.5	199.5	190.4	185.5
72.5°	156.8	168.0	165.9	156.1	152.6
75°	121.1	133.7	132.3	121.8	119.0
77.5°	91.0	102.9	98.7	90.3	86.8
80°	64.4	72.1	67.9	58.1	55.3
82.5°	39.2	45.5	38.5	32.9	30.1
85°	21.0	23.1	18.2	16.8	16.1
87.5°	7.7	7.7	7.7	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)