

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: P258572

Luminaire Tested: **14CZ-LD5-25-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L93050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

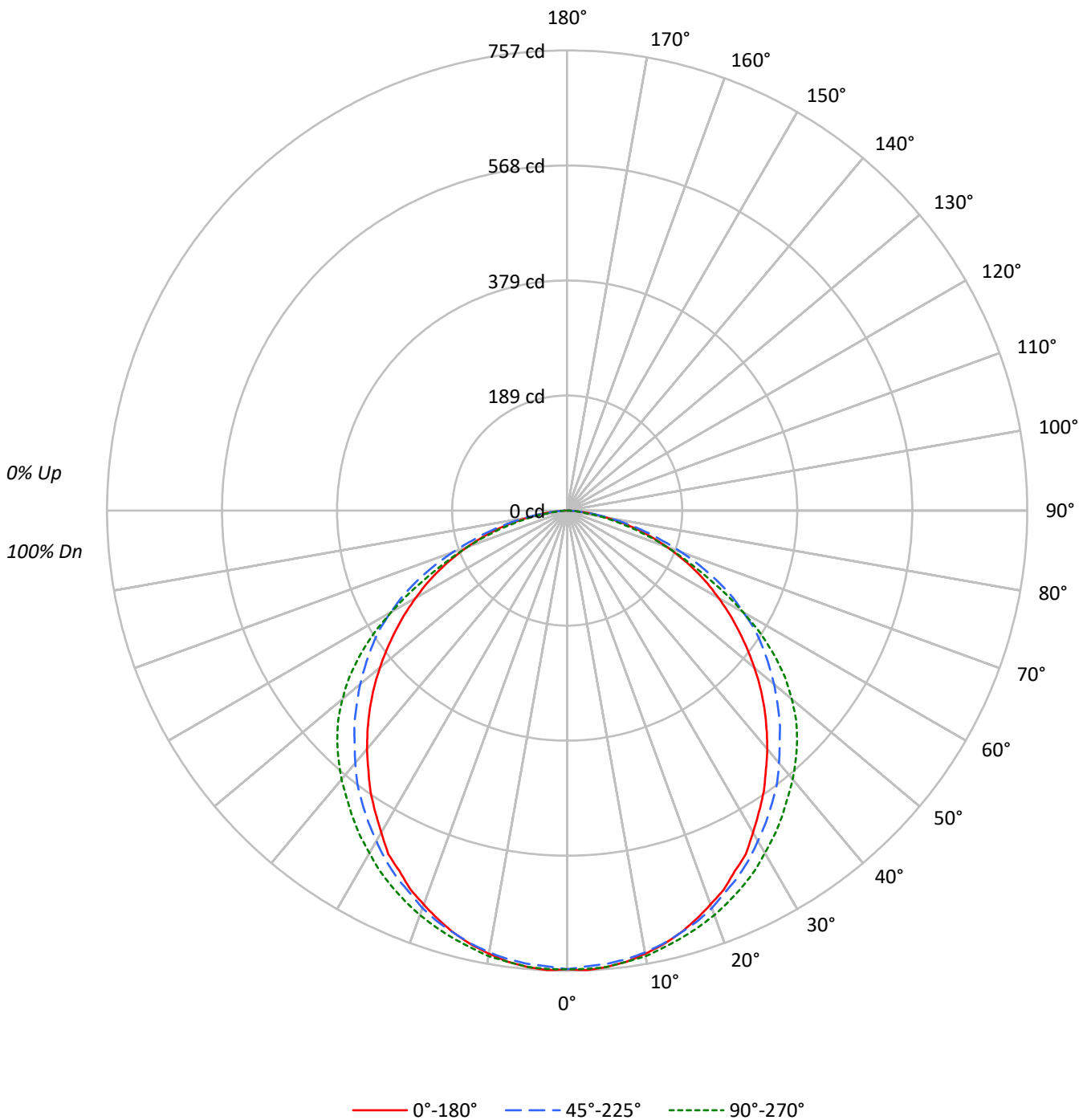
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2031	2031	2031
5°	2036	2022	2036
10°	2023	2017	2034
15°	2004	2004	2028
20°	1975	1993	2028
25°	1941	1974	2026
30°	1899	1951	2021
35°	1852	1930	2022
40°	1800	1905	2028
45°	1746	1883	2036
50°	1683	1860	2020
55°	1615	1843	1954
60°	1548	1803	1798
65°	1477	1726	1575
70°	1371	1574	1363
75°	1243	1371	1125
80°	990	1086	831
85°	701	605	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.4
10°-20°	204.0	9.8
20°-30°	307.5	14.7
30°-40°	368.6	17.6
40°-50°	382.5	18.3
50°-60°	345.0	16.5
60°-70°	251.7	12.0
70°-80°	132.1	6.3
80°-90°	28.2	1.3
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°	582.9	27.9
0°-40°	951.5	45.5
0°-60°	1679.1	80.3
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	754	752	748	754	754	72
15°	720	720	720	728	728	203
25°	654	657	665	679	682	302
35°	564	570	588	609	615	352
45°	459	468	495	525	535	354
55°	344	357	393	418	416	308
65°	232	245	271	261	247	229
75°	120	136	132	114	108	125
85°	23	28	20	16	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.6	754.6	754.6	754.6	754.6
2.5°	756.6	754.6	750.5	754.6	754.6
5°	753.6	751.5	748.4	753.6	753.6
7.5°	748.4	746.3	744.3	749.4	748.4
10°	740.2	739.1	738.1	744.3	744.3
12.5°	730.9	730.9	729.8	737.1	736.0
15°	719.5	719.5	719.5	727.8	727.8
17.5°	705.1	707.2	709.2	718.5	718.5
20°	689.6	691.7	695.8	707.2	708.2
22.5°	674.2	675.2	679.3	692.7	695.8
25°	653.6	656.7	664.9	679.3	682.4
27.5°	637.1	638.1	647.4	663.9	668.0
30°	611.3	618.5	627.8	646.3	650.5
32.5°	587.6	593.8	608.2	627.8	634.0
35°	563.9	570.1	587.6	609.2	615.4
37.5°	537.1	546.4	567.0	588.6	595.8
40°	512.3	520.6	542.2	569.0	577.3
42.5°	485.5	493.8	517.5	547.4	556.7
45°	458.7	468.0	494.8	524.7	535.0
47.5°	430.9	441.2	469.0	502.0	511.3
50°	402.0	413.4	444.3	478.3	482.4
52.5°	373.2	385.5	418.5	448.4	452.5
55°	344.3	356.7	392.8	418.5	416.5
57.5°	316.5	329.9	367.0	380.4	378.3
60°	287.6	302.0	335.0	341.2	334.0
62.5°	260.8	274.2	305.1	300.0	290.7
65°	231.9	245.3	271.1	260.8	247.4
67.5°	203.1	219.6	236.1	218.5	208.2
70°	174.2	192.8	200.0	182.5	173.2
72.5°	146.4	166.0	163.9	146.4	140.2
75°	119.6	136.1	131.9	114.4	108.2
77.5°	90.7	109.3	100.0	85.6	80.4
80°	63.9	80.4	70.1	57.7	53.6
82.5°	42.3	53.6	43.3	34.0	30.9
85°	22.7	27.8	19.6	16.5	15.5
87.5°	9.3	8.2	7.2	7.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)