

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: P258887

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258887
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-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.0 lumens
Efficiency: N/A
Efficacy: 81.9 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

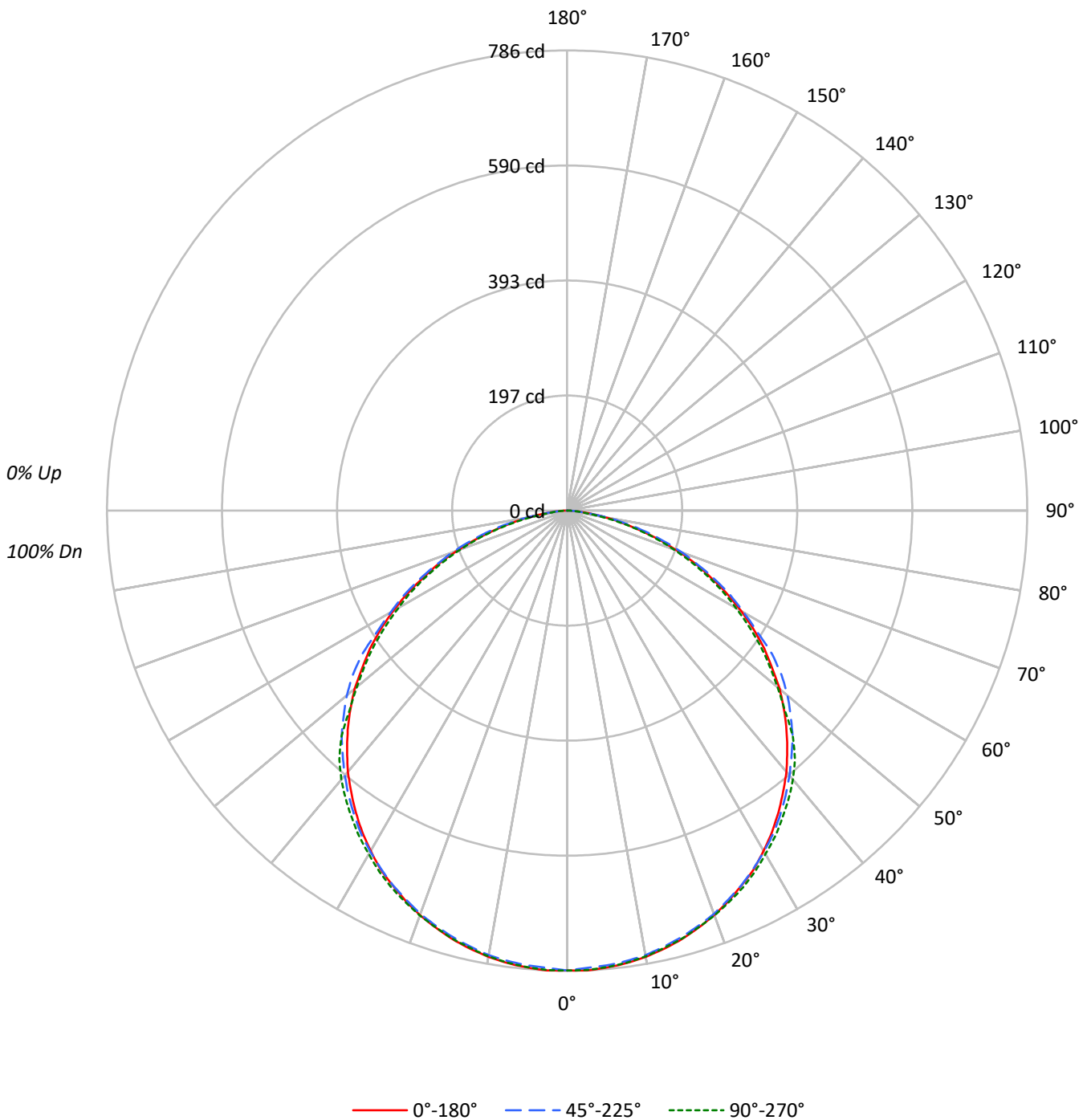
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2114	2114	2114
5°	2116	2106	2114
10°	2115	2107	2113
15°	2111	2101	2109
20°	2105	2099	2107
25°	2096	2094	2109
30°	2085	2089	2105
35°	2067	2084	2106
40°	2047	2075	2108
45°	2017	2073	2076
50°	1984	2057	1962
55°	1928	2004	1891
60°	1847	1875	1792
65°	1729	1776	1683
70°	1574	1637	1522
75°	1313	1435	1290
80°	1041	1097	894
85°	676	587	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.3
10°-20°	213.6	9.5
20°-30°	326.1	14.6
30°-40°	397.6	17.7
40°-50°	416.3	18.6
50°-60°	370.3	16.5
60°-70°	273.2	12.2
70°-80°	141.2	6.3
80°-90°	27.4	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°	614.0	27.4
0°-40°	1011.6	45.2
0°-60°	1798.2	80.3
0°-90°	2240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	783	783	780	783	783	74
15°	758	757	754	757	757	214
25°	706	706	705	710	710	326
35°	629	630	634	642	641	394
45°	530	534	545	550	545	409
55°	411	420	427	409	403	366
65°	272	291	279	269	264	269
75°	126	139	138	127	124	137
85°	22	24	19	18	17	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.6	785.6	785.6	785.6	785.6
2.5°	786.3	785.6	781.9	785.6	785.6
5°	783.4	782.7	779.7	782.7	782.7
7.5°	779.7	779.0	776.1	779.0	779.0
10°	773.9	773.2	771.0	773.9	773.2
12.5°	766.6	766.6	762.9	766.6	765.1
15°	757.8	757.1	754.2	757.1	757.1
17.5°	746.9	746.2	744.0	747.6	746.2
20°	735.2	734.5	733.0	736.7	735.9
22.5°	721.3	721.3	719.1	723.5	723.5
25°	706.0	706.0	705.3	710.4	710.4
27.5°	690.7	689.2	689.2	694.3	695.0
30°	671.0	671.0	672.4	678.3	677.5
32.5°	651.2	652.0	654.9	660.0	660.7
35°	629.3	630.1	634.4	641.7	641.0
37.5°	606.0	608.2	613.3	621.3	621.3
40°	582.6	584.1	590.6	599.4	600.1
42.5°	556.3	560.0	567.3	577.5	576.0
45°	530.0	533.7	544.6	549.8	545.4
47.5°	502.3	506.7	517.6	518.4	503.8
50°	473.8	478.9	491.4	476.7	468.7
52.5°	441.0	450.5	461.4	441.0	435.9
55°	411.0	419.8	427.1	408.9	403.0
57.5°	377.5	389.1	384.0	375.3	368.0
60°	343.1	355.6	348.3	339.5	332.9
62.5°	308.1	322.0	314.7	305.9	300.1
65°	271.6	290.6	278.9	269.4	264.3
67.5°	237.3	255.5	241.7	234.4	229.2
70°	200.0	215.4	208.1	198.6	193.5
72.5°	163.5	175.2	173.0	162.8	159.2
75°	126.3	139.4	138.0	127.0	124.1
77.5°	94.9	107.3	102.9	94.2	90.5
80°	67.2	75.2	70.8	60.6	57.7
82.5°	40.9	47.5	40.2	34.3	31.4
85°	21.9	24.1	19.0	17.5	16.8
87.5°	8.0	8.0	8.0	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)