

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: P258542

Luminaire Tested: **14CZ-LD5-25-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258542
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-L83050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2460.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

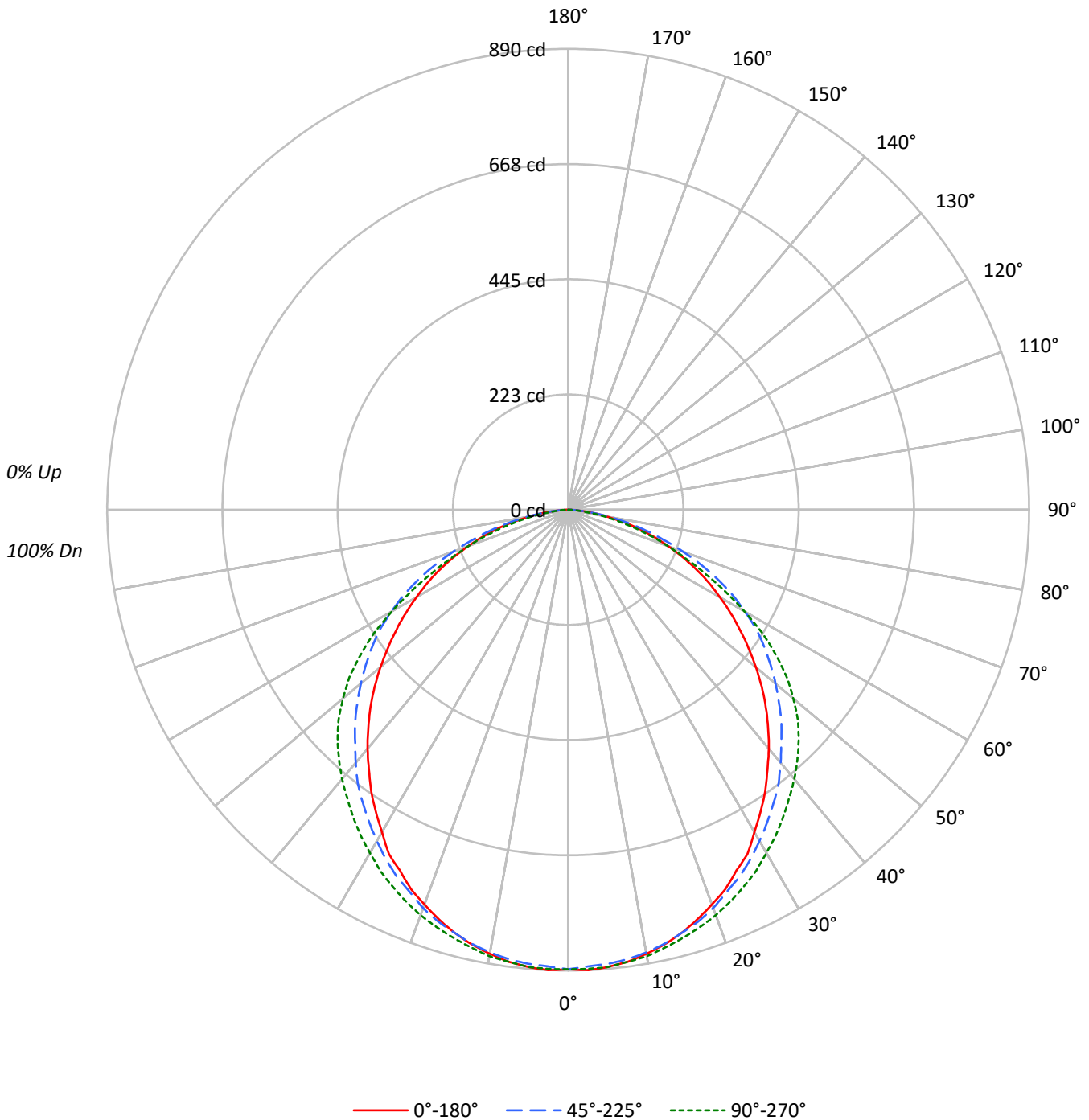
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258542

CATALOG NUMBER: 14CZ-LD5-25-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258542

CATALOG NUMBER: 14CZ-LD5-25-UNV-L83050-W2A1-U-3500K

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°	2389	2389	2389
5°	2395	2378	2395
10°	2379	2373	2393
15°	2358	2358	2385
20°	2323	2344	2386
25°	2283	2322	2384
30°	2235	2295	2378
35°	2179	2271	2378
40°	2117	2241	2386
45°	2054	2215	2395
50°	1980	2188	2376
55°	1901	2168	2299
60°	1821	2121	2115
65°	1738	2031	1854
70°	1613	1851	1603
75°	1463	1614	1324
80°	1165	1278	978
85°	824	710	562



TEST NUMBER: P258542

CATALOG NUMBER: 14CZ-LD5-25-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.4
10°-20°	240.0	9.8
20°-30°	361.8	14.7
30°-40°	433.7	17.6
40°-50°	450.0	18.3
50°-60°	405.9	16.5
60°-70°	296.1	12.0
70°-80°	155.4	6.3
80°-90°	33.1	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°	685.8	27.9
0°-40°	1119.4	45.5
0°-60°	1975.4	80.3
0°-90°	2460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	886	884	880	886	886	84
15°	846	846	846	856	856	238
25°	769	772	782	799	803	355
35°	663	671	691	717	724	414
45°	540	551	582	617	629	416
55°	405	420	462	492	490	363
65°	273	289	319	307	291	270
75°	141	160	155	135	127	148
85°	27	33	23	19	18	34
90°	0	0	0	0	0	



TEST NUMBER: P258542

CATALOG NUMBER: 14CZ-LD5-25-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.7	887.7	887.7	887.7	887.7
2.5°	890.2	887.7	882.9	887.7	887.7
5°	886.5	884.1	880.5	886.5	886.5
7.5°	880.5	878.0	875.6	881.7	880.5
10°	870.8	869.6	868.3	875.6	875.6
12.5°	859.9	859.9	858.6	867.1	865.9
15°	846.5	846.5	846.5	856.2	856.2
17.5°	829.5	832.0	834.4	845.3	845.3
20°	811.3	813.8	818.6	832.0	833.2
22.5°	793.1	794.4	799.2	815.0	818.6
25°	768.9	772.5	782.2	799.2	802.9
27.5°	749.5	750.7	761.6	781.0	785.9
30°	719.2	727.7	738.6	760.4	765.3
32.5°	691.3	698.6	715.5	738.6	745.9
35°	663.4	670.7	691.3	716.7	724.0
37.5°	631.9	642.8	667.0	692.5	701.0
40°	602.7	612.4	637.9	669.4	679.1
42.5°	571.2	580.9	608.8	644.0	654.9
45°	539.7	550.6	582.1	617.3	629.4
47.5°	506.9	519.1	551.8	590.6	601.5
50°	473.0	486.3	522.7	562.7	567.6
52.5°	439.0	453.6	492.4	527.6	532.4
55°	405.1	419.6	462.1	492.4	490.0
57.5°	372.3	388.1	431.7	447.5	445.1
60°	338.4	355.3	394.1	401.4	392.9
62.5°	306.8	322.6	359.0	352.9	342.0
65°	272.9	288.6	319.0	306.8	291.1
67.5°	238.9	258.3	277.7	257.1	245.0
70°	205.0	226.8	235.3	214.7	203.7
72.5°	172.2	195.3	192.8	172.2	164.9
75°	140.7	160.1	155.2	134.6	127.3
77.5°	106.7	128.6	117.6	100.7	94.6
80°	75.2	94.6	82.5	67.9	63.1
82.5°	49.7	63.1	50.9	40.0	36.4
85°	26.7	32.7	23.0	19.4	18.2
87.5°	10.9	9.7	8.5	8.5	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)