

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: P260410

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3256.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

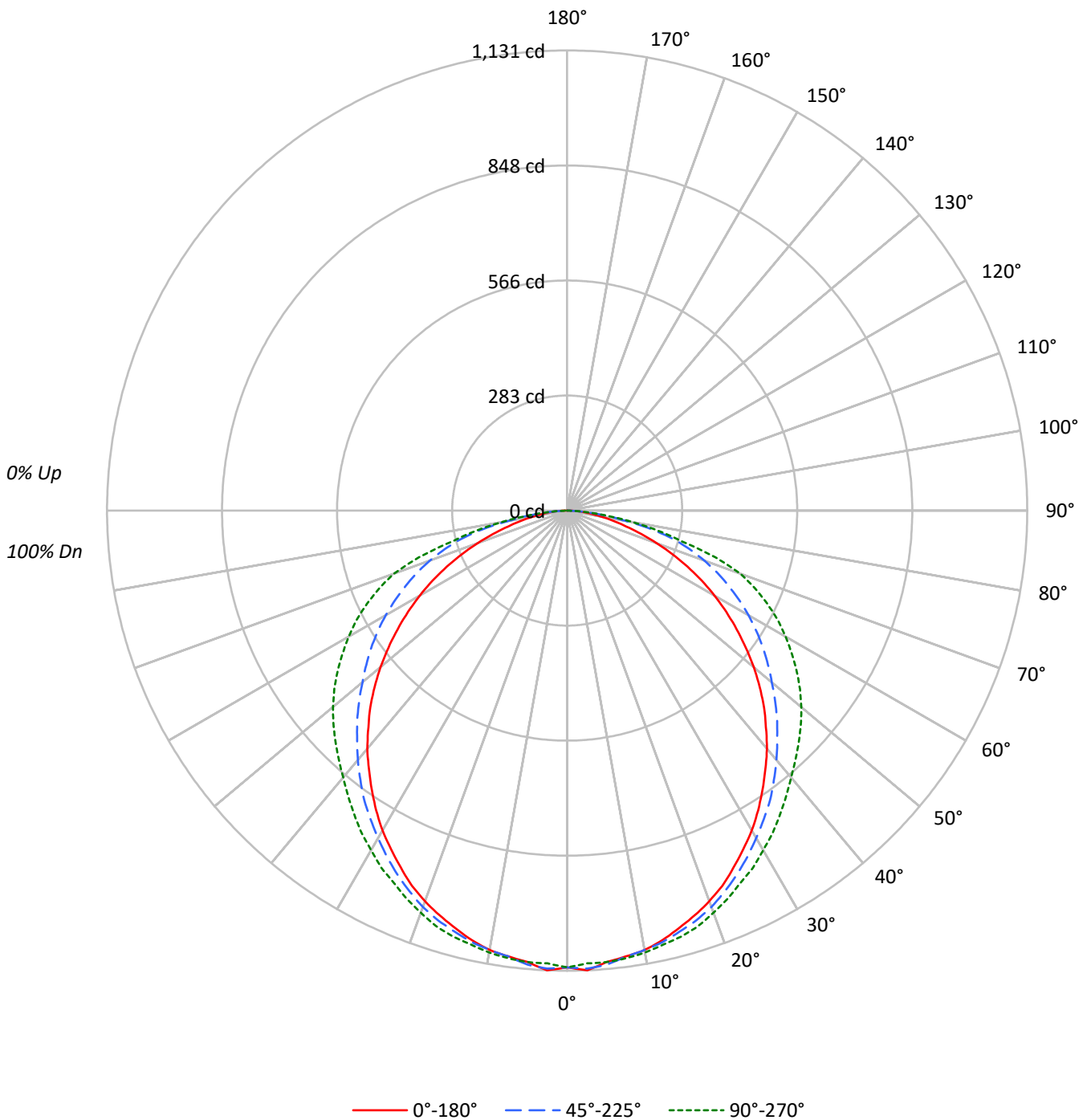
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260410

CATALOG NUMBER: 22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P260410

CATALOG NUMBER: 22CZ-LD5-44-RDP-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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3021	3021	3021
5°	3009	3026	3009
10°	2997	2997	3014
15°	2960	2984	3020
20°	2926	2969	3012
25°	2874	2931	2995
30°	2821	2888	2994
35°	2750	2856	2997
40°	2684	2812	3008
45°	2606	2777	3063
50°	2507	2750	3145
55°	2387	2759	3232
60°	2252	2772	3338
65°	2077	2788	3457
70°	1841	2820	3563
75°	1562	2811	3035
80°	1297	2263	2528
85°	1127	1525	1457



TEST NUMBER: P260410

CATALOG NUMBER: 22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.3
10°-20°	302.5	9.3
20°-30°	455.1	14.0
30°-40°	545.4	16.8
40°-50°	568.8	17.5
50°-60°	529.6	16.3
60°-70°	430.0	13.2
70°-80°	259.1	8.0
80°-90°	59.4	1.8
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°	863.7	26.5
0°-40°	1409.1	43.3
0°-60°	2507.5	77.0
0°-90°	3256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1114	1114	1120	1122	1114	106
15°	1062	1067	1071	1078	1084	300
25°	968	974	987	1000	1009	446
35°	837	848	869	895	912	524
45°	685	698	730	777	805	527
55°	509	530	588	652	689	455
65°	326	361	438	506	543	323
75°	150	200	270	288	292	162
85°	36	45	49	47	47	42
90°	0	0	0	0	0	



TEST NUMBER: P260410

CATALOG NUMBER: 22CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1131.1	1129.0	1126.8	1120.4	1114.0
5°	1114.0	1114.0	1120.4	1122.5	1114.0
7.5°	1105.4	1105.4	1105.4	1114.0	1109.7
10°	1096.8	1096.8	1096.8	1103.2	1103.2
12.5°	1081.8	1083.9	1086.1	1088.2	1092.5
15°	1062.4	1066.7	1071.0	1077.5	1083.9
17.5°	1043.1	1047.4	1056.0	1062.4	1071.0
20°	1021.7	1026.0	1036.7	1043.1	1051.7
22.5°	998.1	1000.2	1013.1	1021.7	1032.4
25°	968.0	974.4	987.3	1000.2	1008.8
27.5°	938.0	944.4	959.4	976.6	989.5
30°	907.9	914.3	929.4	950.8	963.7
32.5°	873.6	882.2	899.3	925.1	940.1
35°	837.1	847.8	869.3	895.0	912.2
37.5°	800.6	811.3	834.9	867.1	884.3
40°	764.1	774.8	800.6	834.9	856.4
42.5°	723.3	736.2	764.1	804.9	830.6
45°	684.7	697.6	729.8	777.0	804.9
47.5°	641.8	656.8	693.3	746.9	779.1
50°	598.8	616.0	656.8	716.9	751.2
52.5°	553.8	573.1	622.4	684.7	721.2
55°	508.7	530.2	588.1	652.5	689.0
57.5°	463.6	487.2	551.6	618.2	654.6
60°	418.5	444.3	515.1	583.8	620.3
62.5°	373.5	401.4	476.5	545.2	583.8
65°	326.2	360.6	437.9	506.5	543.0
67.5°	279.0	319.8	399.2	465.8	500.1
70°	234.0	279.0	358.4	420.7	452.9
72.5°	191.0	238.2	315.5	369.2	382.1
75°	150.2	199.6	270.4	287.6	291.9
77.5°	115.9	161.0	214.6	218.9	229.7
80°	83.7	122.3	146.0	158.8	163.1
82.5°	58.0	83.7	96.6	98.7	100.9
85°	36.5	45.1	49.4	47.2	47.2
87.5°	19.3	17.2	15.0	10.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)