

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: P260496

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260496
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-L82765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3395.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

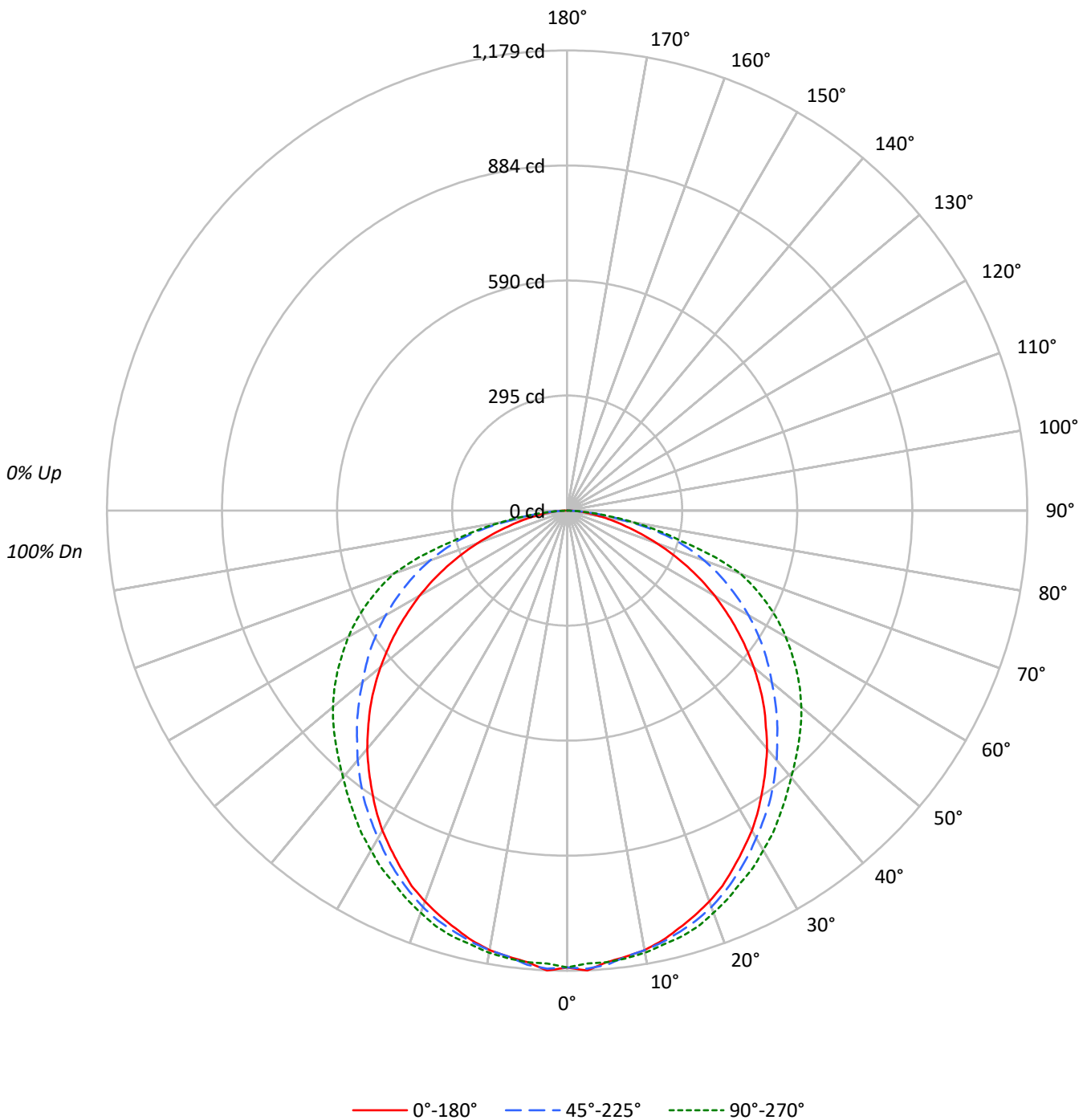
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3150	3150	3150
5°	3138	3156	3138
10°	3125	3125	3143
15°	3086	3111	3149
20°	3051	3095	3140
25°	2997	3057	3123
30°	2942	3011	3123
35°	2867	2978	3124
40°	2799	2933	3137
45°	2717	2896	3194
50°	2614	2867	3279
55°	2488	2877	3370
60°	2349	2891	3481
65°	2166	2907	3605
70°	1919	2940	3715
75°	1629	2932	3165
80°	1353	2359	2636
85°	1173	1590	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	3.3
10°-20°	315.4	9.3
20°-30°	474.6	14.0
30°-40°	568.7	16.8
40°-50°	593.1	17.5
50°-60°	552.2	16.3
60°-70°	448.3	13.2
70°-80°	270.2	8.0
80°-90°	61.9	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°	900.6	26.5
0°-40°	1469.3	43.3
0°-60°	2614.5	77.0
0°-90°	3395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1162	1162	1168	1170	1162	110
15°	1108	1112	1117	1124	1130	313
25°	1009	1016	1030	1043	1052	465
35°	873	884	906	933	951	546
45°	714	727	761	810	839	550
55°	530	553	613	680	718	474
65°	340	376	456	528	566	336
75°	157	208	282	300	304	169
85°	38	47	52	49	49	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.5	1170.5	1170.5	1170.5	1170.5
2.5°	1179.4	1177.2	1174.9	1168.2	1161.5
5°	1161.5	1161.5	1168.2	1170.5	1161.5
7.5°	1152.6	1152.6	1152.6	1161.5	1157.0
10°	1143.6	1143.6	1143.6	1150.3	1150.3
12.5°	1127.9	1130.2	1132.4	1134.7	1139.1
15°	1107.8	1112.3	1116.8	1123.5	1130.2
17.5°	1087.7	1092.1	1101.1	1107.8	1116.8
20°	1065.3	1069.8	1080.9	1087.7	1096.6
22.5°	1040.7	1042.9	1056.3	1065.3	1076.5
25°	1009.3	1016.0	1029.5	1042.9	1051.9
27.5°	978.0	984.7	1000.4	1018.3	1031.7
30°	946.7	953.4	969.0	991.4	1004.9
32.5°	910.9	919.8	937.7	964.6	980.2
35°	872.8	884.0	906.4	933.2	951.1
37.5°	834.8	846.0	870.6	904.1	922.1
40°	796.7	807.9	834.8	870.6	893.0
42.5°	754.2	767.6	796.7	839.2	866.1
45°	713.9	727.3	760.9	810.2	839.2
47.5°	669.2	684.8	722.9	778.8	812.4
50°	624.4	642.3	684.8	747.5	783.3
52.5°	577.4	597.5	649.0	713.9	752.0
55°	530.4	552.8	613.2	680.3	718.4
57.5°	483.4	508.0	575.2	644.5	682.6
60°	436.4	463.3	537.1	608.7	646.8
62.5°	389.4	418.5	496.8	568.4	608.7
65°	340.2	376.0	456.5	528.2	566.2
67.5°	290.9	333.5	416.3	485.6	521.5
70°	243.9	290.9	373.7	438.6	472.2
72.5°	199.2	248.4	329.0	384.9	398.4
75°	156.7	208.1	282.0	299.9	304.4
77.5°	120.9	167.8	223.8	228.3	239.5
80°	87.3	127.6	152.2	165.6	170.1
82.5°	60.4	87.3	100.7	102.9	105.2
85°	38.0	47.0	51.5	49.2	49.2
87.5°	20.1	17.9	15.7	11.2	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)