

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: P260498

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260498
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-LD5-20-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1248.0 lumens
Efficiency: N/A
Efficacy: 80.4 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

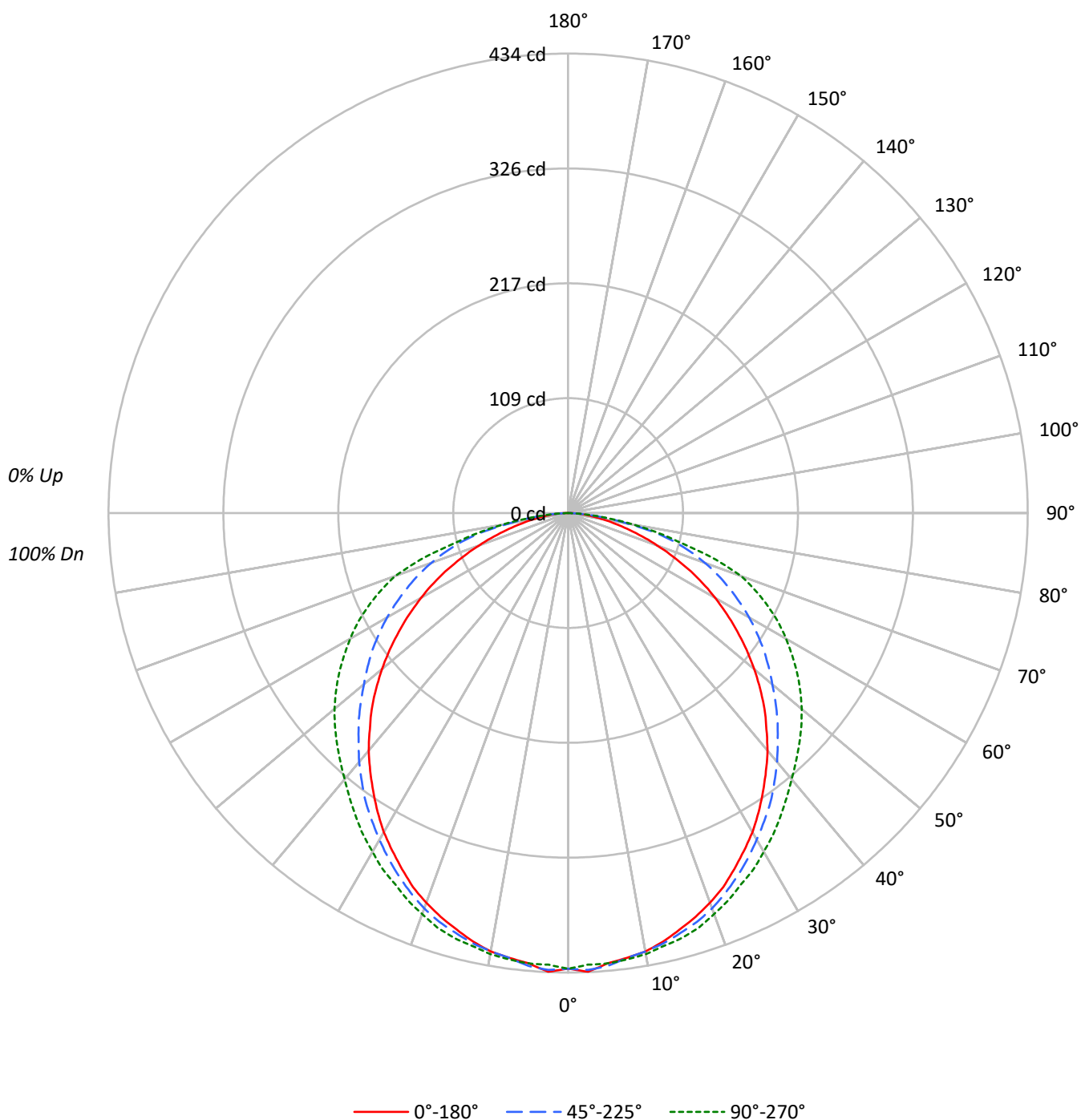
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1158	1158	1158
5°	1153	1160	1153
10°	1149	1149	1156
15°	1134	1144	1158
20°	1121	1138	1154
25°	1102	1124	1148
30°	1081	1107	1148
35°	1054	1095	1148
40°	1029	1078	1153
45°	999	1064	1174
50°	961	1054	1205
55°	915	1057	1239
60°	863	1062	1280
65°	796	1068	1325
70°	706	1081	1366
75°	599	1078	1163
80°	497	866	969
85°	432	584	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	3.3
10°-20°	116.0	9.3
20°-30°	174.4	14.0
30°-40°	209.1	16.8
40°-50°	218.0	17.5
50°-60°	203.0	16.3
60°-70°	164.8	13.2
70°-80°	99.3	8.0
80°-90°	22.8	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°	331.1	26.5
0°-40°	540.1	43.3
0°-60°	961.1	77.0
0°-90°	1248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	430	430	430	430	430	
5°	427	427	429	430	427	41
15°	407	409	410	413	416	115
25°	371	374	378	383	387	171
35°	321	325	333	343	350	201
45°	262	267	280	298	308	202
55°	195	203	225	250	264	174
65°	125	138	168	194	208	124
75°	58	76	104	110	112	62
85°	14	17	19	18	18	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	430.3	430.3	430.3	430.3	430.3
2.5°	433.6	432.7	431.9	429.4	427.0
5°	427.0	427.0	429.4	430.3	427.0
7.5°	423.7	423.7	423.7	427.0	425.3
10°	420.4	420.4	420.4	422.9	422.9
12.5°	414.6	415.5	416.3	417.1	418.7
15°	407.2	408.9	410.5	413.0	415.5
17.5°	399.8	401.5	404.8	407.2	410.5
20°	391.6	393.2	397.4	399.8	403.1
22.5°	382.5	383.4	388.3	391.6	395.7
25°	371.0	373.5	378.4	383.4	386.7
27.5°	359.5	362.0	367.7	374.3	379.3
30°	348.0	350.5	356.2	364.4	369.4
32.5°	334.8	338.1	344.7	354.6	360.3
35°	320.8	325.0	333.2	343.1	349.6
37.5°	306.9	311.0	320.0	332.4	338.9
40°	292.9	297.0	306.9	320.0	328.3
42.5°	277.2	282.2	292.9	308.5	318.4
45°	262.4	267.4	279.7	297.8	308.5
47.5°	246.0	251.7	265.7	286.3	298.6
50°	229.5	236.1	251.7	274.8	287.9
52.5°	212.3	219.7	238.6	262.4	276.4
55°	195.0	203.2	225.4	250.1	264.1
57.5°	177.7	186.7	211.4	236.9	250.9
60°	160.4	170.3	197.4	223.8	237.8
62.5°	143.1	153.8	182.6	209.0	223.8
65°	125.0	138.2	167.8	194.2	208.1
67.5°	106.9	122.6	153.0	178.5	191.7
70°	89.7	106.9	137.4	161.2	173.6
72.5°	73.2	91.3	120.9	141.5	146.4
75°	57.6	76.5	103.7	110.2	111.9
77.5°	44.4	61.7	82.3	83.9	88.0
80°	32.1	46.9	55.9	60.9	62.5
82.5°	22.2	32.1	37.0	37.8	38.7
85°	14.0	17.3	18.9	18.1	18.1
87.5°	7.4	6.6	5.8	4.1	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)