

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: P277610

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-20HE-RDP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1279.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

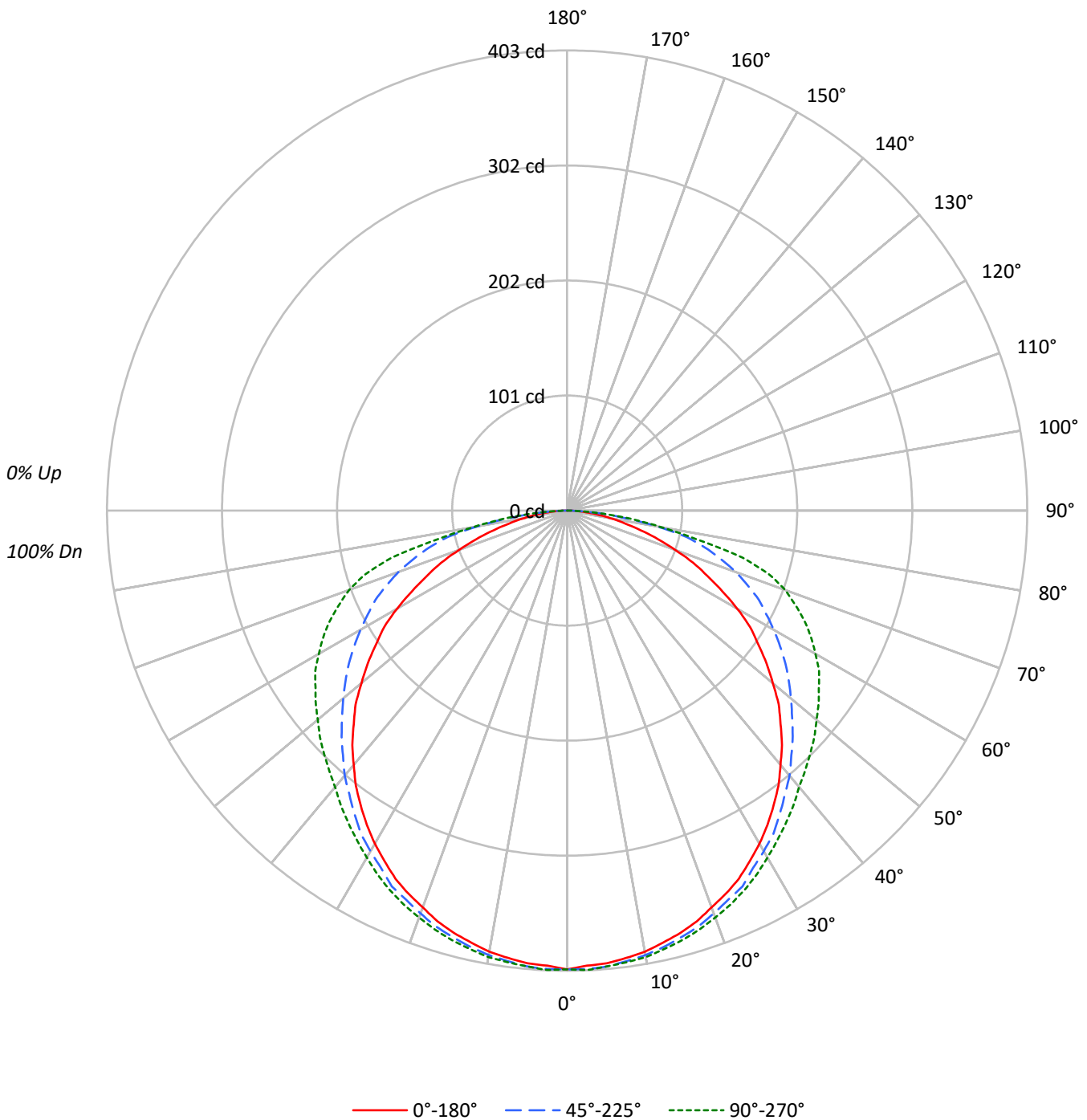
Input Watts (W): 16.275  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1081	1081	1081
5°	1075	1083	1083
10°	1072	1080	1085
15°	1067	1077	1085
20°	1059	1075	1086
25°	1056	1078	1089
30°	1047	1070	1090
35°	1035	1066	1097
40°	1021	1064	1110
45°	1006	1063	1146
50°	985	1071	1194
55°	958	1095	1263
60°	927	1124	1352
65°	863	1181	1462
70°	792	1236	1599
75°	695	1301	1653
80°	598	1240	1297
85°	522	902	988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.0	3.0
10°-20°	109.1	8.5
20°-30°	166.5	13.0
30°-40°	203.3	15.9
40°-50°	217.3	17.0
50°-60°	209.8	16.4
60°-70°	180.6	14.1
70°-80°	122.2	9.6
80°-90°	32.2	2.5
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°	313.6	24.5
0°-40°	516.9	40.4
0°-60°	944.0	73.8
0°-90°	1279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	402	402	402	402	402	
5°	398	399	401	401	401	38
15°	383	384	387	389	390	108
25°	356	358	363	365	367	164
35°	315	318	325	331	334	197
45°	264	269	279	294	301	204
55°	204	211	233	257	269	183
65°	136	149	185	214	230	135
75°	67	88	125	150	159	72
85°	17	24	29	30	32	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	401.8	401.8	401.8	401.8	401.8
2.5°	398.9	399.9	401.8	401.8	402.7
5°	398.0	398.9	400.8	400.8	400.8
7.5°	395.2	396.1	398.0	398.9	398.9
10°	392.3	393.3	395.2	396.1	397.1
12.5°	387.6	388.6	391.4	393.3	393.3
15°	382.9	383.9	386.7	388.6	389.5
17.5°	377.3	379.2	382.0	383.9	384.8
20°	369.8	371.6	375.4	378.2	379.2
22.5°	363.2	365.1	368.8	371.6	373.5
25°	355.7	357.5	363.2	365.1	366.9
27.5°	346.2	348.1	352.8	356.6	359.4
30°	336.8	338.7	344.4	349.1	350.9
32.5°	326.5	329.3	335.9	339.7	342.5
35°	315.2	318.0	324.6	331.2	334.0
37.5°	303.9	306.7	313.3	321.8	325.5
40°	290.7	294.5	303.0	314.3	316.1
42.5°	278.5	283.2	290.7	303.9	308.6
45°	264.4	269.1	279.4	293.6	301.1
47.5°	251.2	255.9	267.2	284.1	293.6
50°	235.2	241.8	255.9	275.7	285.1
52.5°	220.2	225.8	244.6	266.3	277.6
55°	204.2	210.8	233.3	256.9	269.1
57.5°	190.1	195.7	221.1	247.5	261.6
60°	172.2	179.7	208.9	237.1	251.2
62.5°	153.4	164.7	196.6	225.8	240.9
65°	135.5	148.7	185.4	214.5	229.6
67.5°	119.5	133.6	171.2	202.3	216.4
70°	100.7	118.6	157.1	187.2	203.2
72.5°	83.7	103.5	141.1	171.2	185.4
75°	66.8	88.4	125.1	150.5	159.0
77.5°	51.7	72.4	107.3	114.8	115.7
80°	38.6	57.4	80.0	80.9	83.7
82.5°	26.3	40.5	51.7	56.5	57.4
85°	16.9	23.5	29.2	30.1	32.0
87.5°	7.5	8.5	10.3	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)