

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: P277550

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277550
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-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1316.0 lumens
Efficiency: N/A
Efficacy: 84.2 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

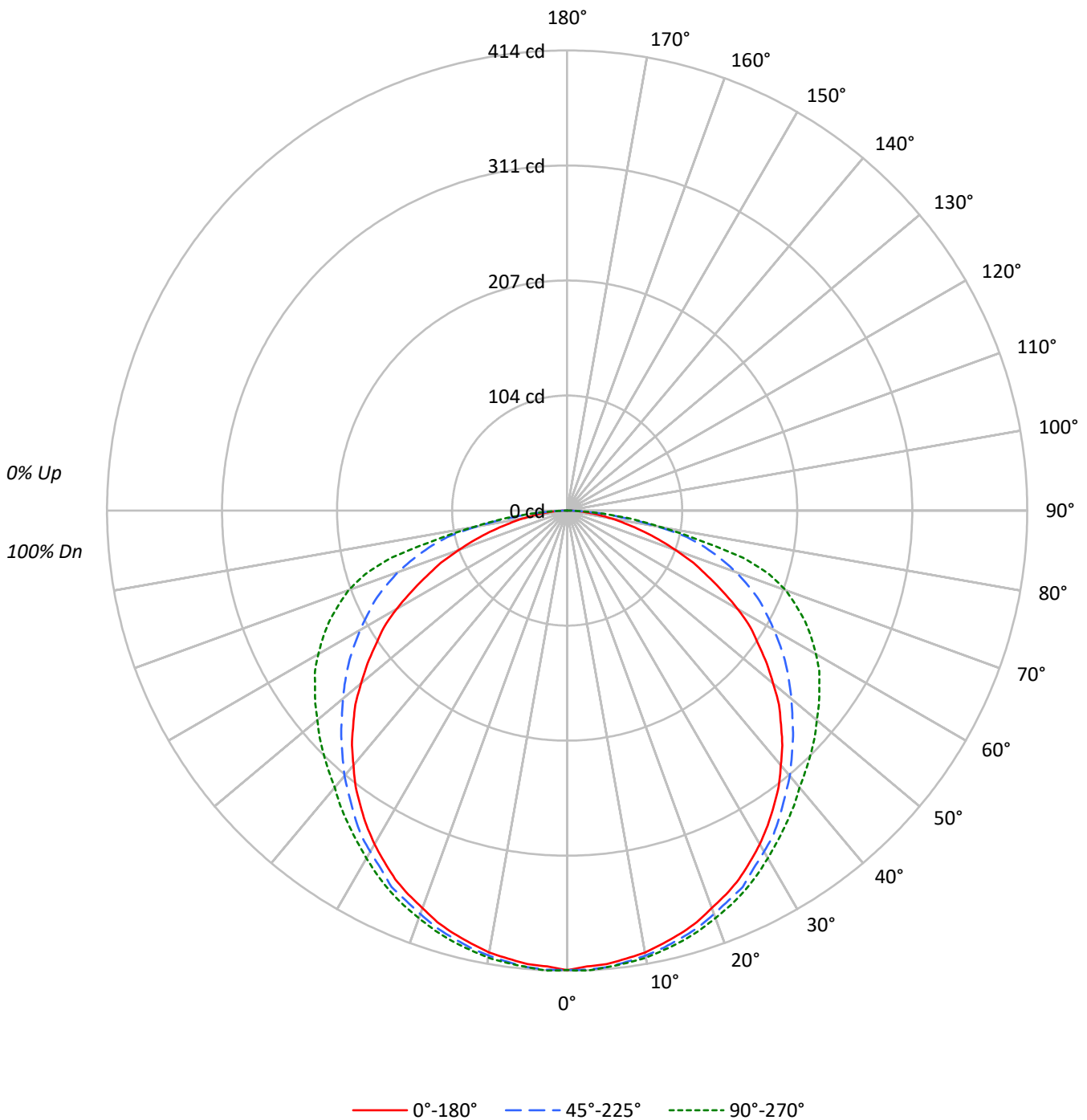
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277550

CATALOG NUMBER: 22CZ2-20HE-RDP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P277550

CATALOG NUMBER: 22CZ2-20HE-RDP-UNV-L82765-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	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°	1112	1112	1112
5°	1106	1114	1114
10°	1103	1111	1116
15°	1098	1109	1117
20°	1090	1106	1117
25°	1086	1110	1121
30°	1077	1101	1122
35°	1065	1097	1129
40°	1051	1095	1143
45°	1035	1094	1179
50°	1013	1102	1228
55°	986	1126	1299
60°	954	1157	1391
65°	888	1214	1504
70°	815	1272	1645
75°	714	1339	1701
80°	615	1275	1336
85°	537	926	1016



TEST NUMBER: P277550

CATALOG NUMBER: 22CZ2-20HE-RDP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	3.0
10°-20°	112.3	8.5
20°-30°	171.3	13.0
30°-40°	209.2	15.9
40°-50°	223.6	17.0
50°-60°	215.9	16.4
60°-70°	185.8	14.1
70°-80°	125.7	9.6
80°-90°	33.2	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°	322.7	24.5
0°-40°	531.8	40.4
0°-60°	971.3	73.8
0°-90°	1316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	410	410	412	412	412	39
15°	394	395	398	400	401	111
25°	366	368	374	376	378	168
35°	324	327	334	341	344	203
45°	272	277	288	302	310	210
55°	210	217	240	264	277	188
65°	139	153	191	221	236	139
75°	69	91	129	155	164	74
85°	17	24	30	31	33	20
90°	0	0	0	0	0	



TEST NUMBER: P277550

CATALOG NUMBER: 22CZ2-20HE-RDP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.4	413.4	413.4	413.4	413.4
2.5°	410.5	411.4	413.4	413.4	414.3
5°	409.5	410.5	412.4	412.4	412.4
7.5°	406.6	407.6	409.5	410.5	410.5
10°	403.7	404.7	406.6	407.6	408.5
12.5°	398.9	399.8	402.7	404.7	404.7
15°	394.0	395.0	397.9	399.8	400.8
17.5°	388.2	390.1	393.0	395.0	396.0
20°	380.5	382.4	386.3	389.2	390.1
22.5°	373.7	375.6	379.5	382.4	384.3
25°	365.9	367.9	373.7	375.6	377.6
27.5°	356.3	358.2	363.0	366.9	369.8
30°	346.6	348.5	354.3	359.2	361.1
32.5°	335.9	338.8	345.6	349.5	352.4
35°	324.3	327.2	334.0	340.8	343.7
37.5°	312.7	315.6	322.4	331.1	335.0
40°	299.1	303.0	311.7	323.3	325.3
42.5°	286.6	291.4	299.1	312.7	317.5
45°	272.0	276.9	287.5	302.0	309.8
47.5°	258.5	263.3	274.9	292.4	302.0
50°	242.0	248.8	263.3	283.7	293.3
52.5°	226.5	232.3	251.7	274.0	285.6
55°	210.1	216.9	240.1	264.3	276.9
57.5°	195.6	201.4	227.5	254.6	269.1
60°	177.2	184.9	214.9	244.0	258.5
62.5°	157.8	169.4	202.3	232.3	247.8
65°	139.4	153.0	190.7	220.7	236.2
67.5°	122.9	137.5	176.2	208.1	222.7
70°	103.6	122.0	161.7	192.7	209.1
72.5°	86.2	106.5	145.2	176.2	190.7
75°	68.7	91.0	128.8	154.9	163.6
77.5°	53.2	74.5	110.4	118.1	119.1
80°	39.7	59.1	82.3	83.3	86.2
82.5°	27.1	41.6	53.2	58.1	59.1
85°	17.4	24.2	30.0	31.0	32.9
87.5°	7.7	8.7	10.6	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)