

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: P277607

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277607
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-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1246.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

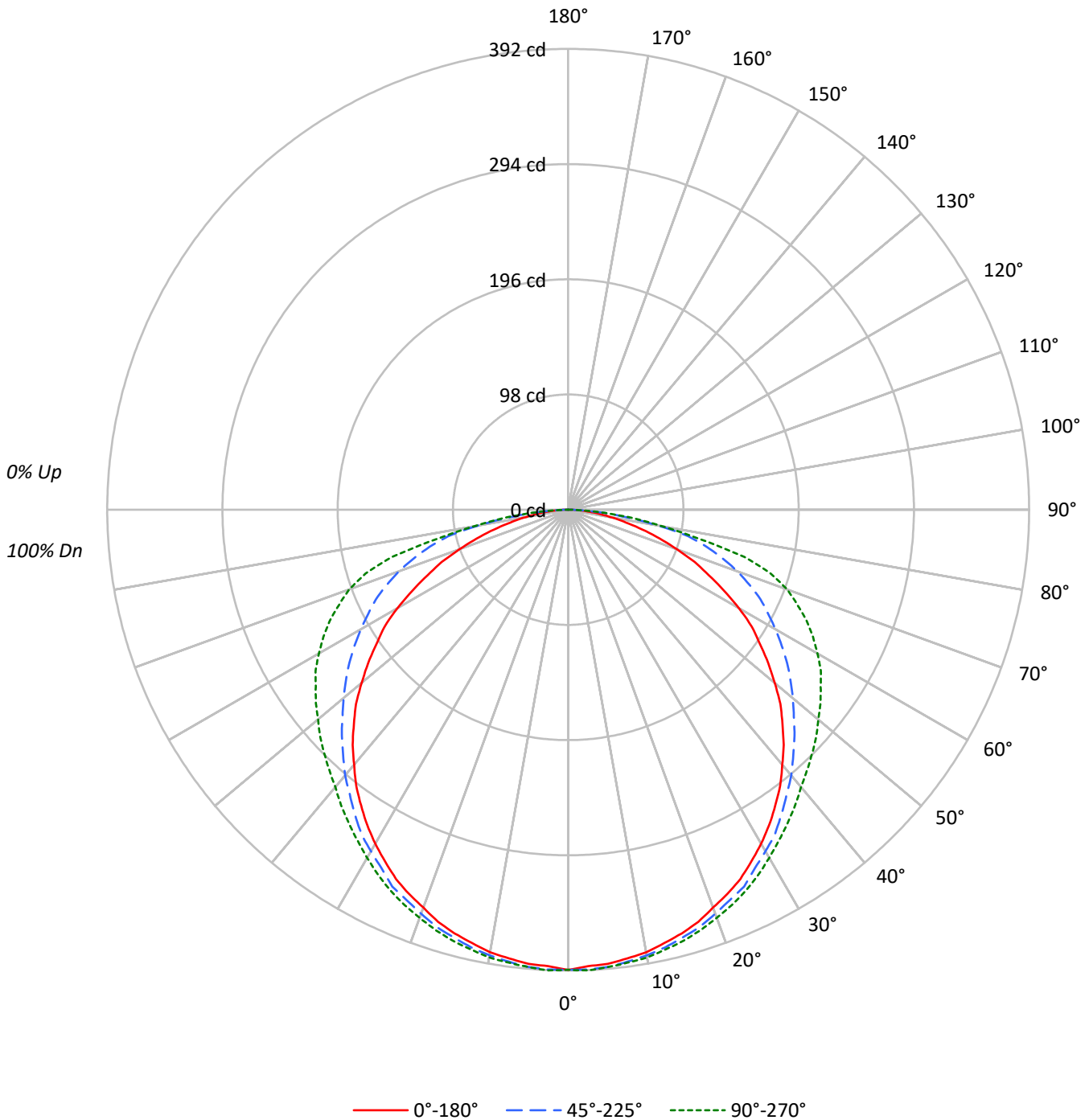
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1053	1053	1053
5°	1047	1055	1055
10°	1044	1052	1057
15°	1039	1049	1057
20°	1031	1047	1058
25°	1029	1050	1061
30°	1019	1042	1062
35°	1009	1039	1069
40°	995	1037	1082
45°	980	1036	1116
50°	960	1044	1163
55°	933	1066	1230
60°	903	1095	1317
65°	840	1150	1424
70°	772	1205	1558
75°	677	1267	1611
80°	583	1207	1265
85°	509	877	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	3.0
10°-20°	106.3	8.5
20°-30°	162.2	13.0
30°-40°	198.0	15.9
40°-50°	211.7	17.0
50°-60°	204.4	16.4
60°-70°	175.9	14.1
70°-80°	119.0	9.6
80°-90°	31.4	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°	305.5	24.5
0°-40°	503.5	40.4
0°-60°	919.6	73.8
0°-90°	1246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	391	391	391	391	391	
5°	388	389	390	390	390	37
15°	373	374	377	379	380	105
25°	346	348	354	356	358	159
35°	307	310	316	323	325	192
45°	258	262	272	286	293	199
55°	199	205	227	250	262	178
65°	132	145	181	209	224	131
75°	65	86	122	147	155	70
85°	16	23	28	29	31	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	391.4	391.4	391.4	391.4	391.4
2.5°	388.6	389.6	391.4	391.4	392.3
5°	387.7	388.6	390.5	390.5	390.5
7.5°	385.0	385.9	387.7	388.6	388.6
10°	382.2	383.1	385.0	385.9	386.8
12.5°	377.6	378.6	381.3	383.1	383.1
15°	373.1	374.0	376.7	378.6	379.5
17.5°	367.6	369.4	372.1	374.0	374.9
20°	360.2	362.1	365.7	368.5	369.4
22.5°	353.8	355.6	359.3	362.1	363.9
25°	346.5	348.3	353.8	355.6	357.5
27.5°	337.3	339.1	343.7	347.4	350.1
30°	328.1	330.0	335.5	340.1	341.9
32.5°	318.1	320.8	327.2	330.9	333.6
35°	307.1	309.8	316.2	322.6	325.4
37.5°	296.1	298.8	305.2	313.5	317.1
40°	283.2	286.9	295.1	306.1	308.0
42.5°	271.3	275.9	283.2	296.1	300.6
45°	257.6	262.1	272.2	286.0	293.3
47.5°	244.7	249.3	260.3	276.8	286.0
50°	229.2	235.6	249.3	268.6	277.7
52.5°	214.5	220.0	238.3	259.4	270.4
55°	198.9	205.3	227.3	250.2	262.1
57.5°	185.2	190.7	215.4	241.1	254.8
60°	167.7	175.1	203.5	231.0	244.7
62.5°	149.4	160.4	191.6	220.0	234.7
65°	132.0	144.8	180.6	209.0	223.7
67.5°	116.4	130.2	166.8	197.1	210.8
70°	98.1	115.5	153.1	182.4	198.0
72.5°	81.6	100.8	137.5	166.8	180.6
75°	65.1	86.2	121.9	146.7	154.9
77.5°	50.4	70.6	104.5	111.8	112.7
80°	37.6	55.9	77.9	78.8	81.6
82.5°	25.7	39.4	50.4	55.0	55.9
85°	16.5	22.9	28.4	29.3	31.2
87.5°	7.3	8.2	10.1	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)