

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: P277609

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277609
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-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1270.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

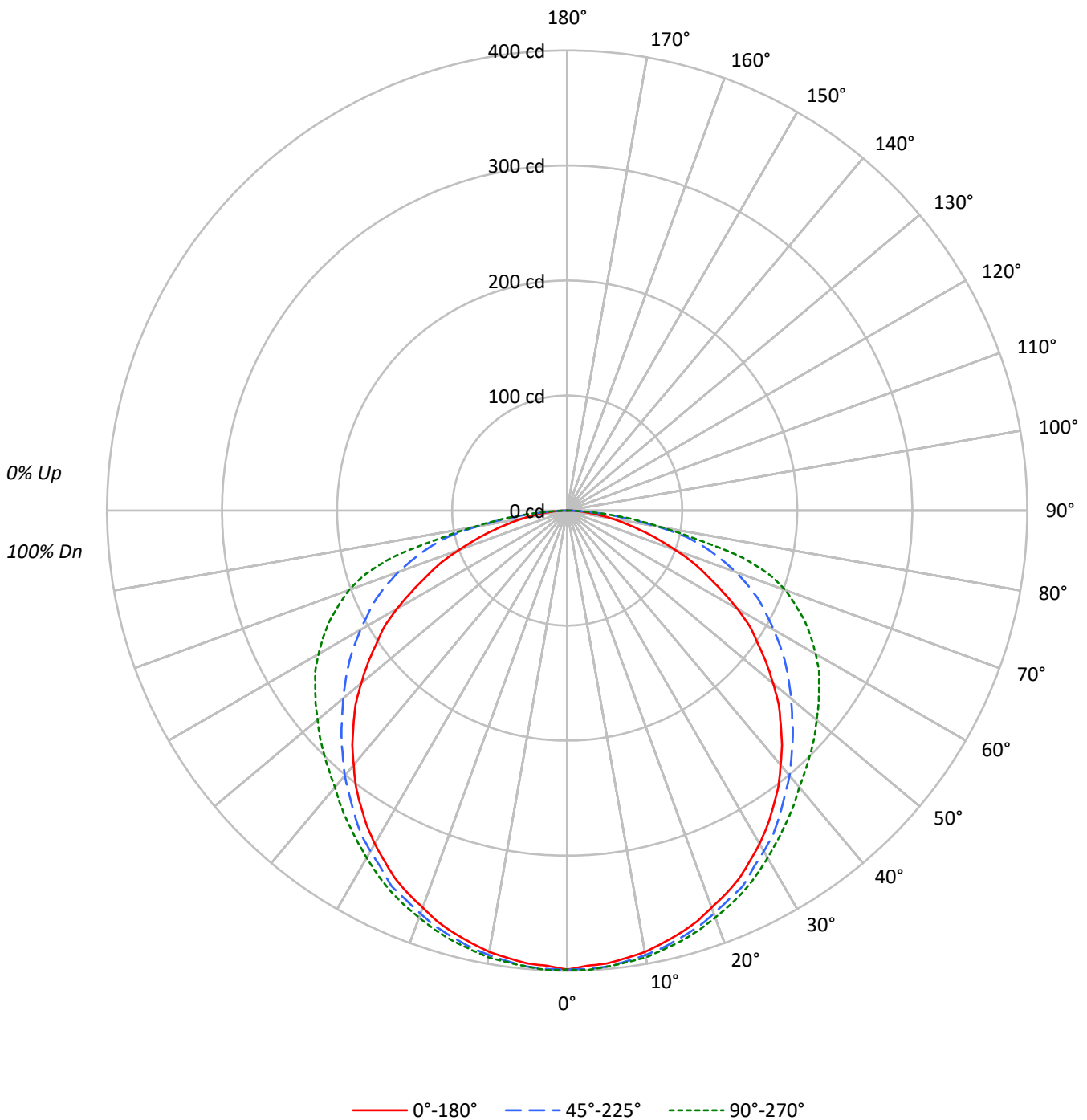
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1073	1073	1073
5°	1068	1075	1075
10°	1065	1072	1077
15°	1059	1070	1078
20°	1052	1068	1078
25°	1049	1071	1082
30°	1039	1062	1083
35°	1028	1059	1090
40°	1014	1057	1103
45°	999	1056	1138
50°	978	1064	1185
55°	951	1087	1254
60°	920	1116	1342
65°	856	1172	1452
70°	787	1227	1588
75°	689	1292	1642
80°	594	1230	1288
85°	519	895	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	3.0
10°-20°	108.3	8.5
20°-30°	165.3	13.0
30°-40°	201.8	15.9
40°-50°	215.8	17.0
50°-60°	208.3	16.4
60°-70°	179.3	14.1
70°-80°	121.3	9.6
80°-90°	32.0	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°	311.4	24.5
0°-40°	513.2	40.4
0°-60°	937.3	73.8
0°-90°	1270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	399	399	399	399	399	
5°	395	396	398	398	398	38
15°	380	381	384	386	387	107
25°	353	355	361	362	364	163
35°	313	316	322	329	332	196
45°	262	267	278	292	299	203
55°	203	209	232	255	267	182
65°	134	148	184	213	228	134
75°	66	88	124	150	158	71
85°	17	23	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°	398.9	398.9	398.9	398.9	398.9
2.5°	396.1	397.1	398.9	398.9	399.9
5°	395.2	396.1	398.0	398.0	398.0
7.5°	392.4	393.3	395.2	396.1	396.1
10°	389.6	390.5	392.4	393.3	394.3
12.5°	384.9	385.8	388.7	390.5	390.5
15°	380.2	381.2	384.0	385.8	386.8
17.5°	374.6	376.5	379.3	381.2	382.1
20°	367.2	369.0	372.8	375.6	376.5
22.5°	360.6	362.5	366.2	369.0	370.9
25°	353.2	355.0	360.6	362.5	364.4
27.5°	343.8	345.7	350.3	354.1	356.9
30°	334.5	336.3	341.9	346.6	348.5
32.5°	324.2	327.0	333.5	337.3	340.1
35°	313.0	315.8	322.3	328.9	331.7
37.5°	301.8	304.6	311.1	319.5	323.3
40°	288.7	292.4	300.8	312.0	313.9
42.5°	276.5	281.2	288.7	301.8	306.4
45°	262.5	267.2	277.5	291.5	299.0
47.5°	249.4	254.1	265.3	282.1	291.5
50°	233.6	240.1	254.1	273.7	283.1
52.5°	218.6	224.2	242.9	264.4	275.6
55°	202.7	209.3	231.7	255.1	267.2
57.5°	188.7	194.3	219.6	245.7	259.7
60°	171.0	178.4	207.4	235.4	249.4
62.5°	152.3	163.5	195.3	224.2	239.2
65°	134.5	147.6	184.0	213.0	228.0
67.5°	118.7	132.7	170.0	200.9	214.9
70°	100.0	117.7	156.0	185.9	201.8
72.5°	83.1	102.8	140.1	170.0	184.0
75°	66.3	87.8	124.3	149.5	157.9
77.5°	51.4	71.9	106.5	114.0	114.9
80°	38.3	57.0	79.4	80.3	83.1
82.5°	26.2	40.2	51.4	56.1	57.0
85°	16.8	23.4	29.0	29.9	31.8
87.5°	7.5	8.4	10.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)