

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: P277488

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277488
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1273.0 lumens
Efficiency: N/A
Efficacy: 82.0 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

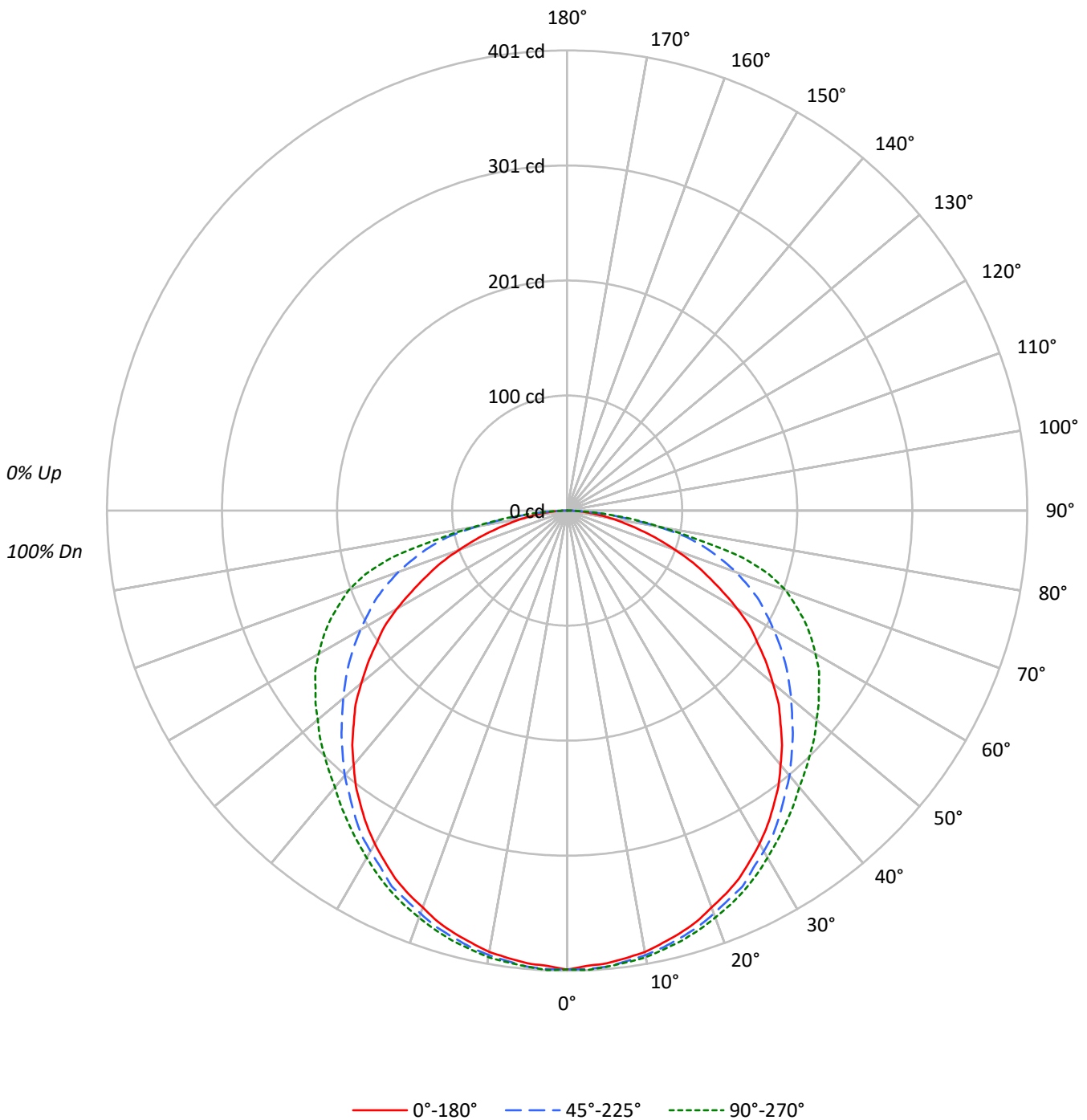
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1076	1076	1076
5°	1070	1078	1078
10°	1067	1075	1080
15°	1062	1072	1080
20°	1054	1070	1081
25°	1051	1073	1084
30°	1042	1065	1085
35°	1031	1061	1092
40°	1017	1059	1105
45°	1001	1058	1141
50°	980	1066	1188
55°	953	1089	1256
60°	922	1119	1345
65°	859	1175	1455
70°	788	1231	1592
75°	691	1295	1646
80°	595	1234	1291
85°	522	895	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	3.0
10°-20°	108.6	8.5
20°-30°	165.7	13.0
30°-40°	202.3	15.9
40°-50°	216.3	17.0
50°-60°	208.8	16.4
60°-70°	179.7	14.1
70°-80°	121.6	9.6
80°-90°	32.1	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°	312.1	24.5
0°-40°	514.4	40.4
0°-60°	939.6	73.8
0°-90°	1273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	396	397	399	399	399	38
15°	381	382	385	387	388	108
25°	354	356	362	363	365	163
35°	314	316	323	330	332	196
45°	263	268	278	292	300	203
55°	203	210	232	256	268	182
65°	135	148	184	214	228	134
75°	66	88	125	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°	399.9	399.9	399.9	399.9	399.9
2.5°	397.1	398.0	399.9	399.9	400.8
5°	396.1	397.1	398.9	398.9	398.9
7.5°	393.3	394.3	396.1	397.1	397.1
10°	390.5	391.4	393.3	394.3	395.2
12.5°	385.8	386.8	389.6	391.4	391.4
15°	381.1	382.1	384.9	386.8	387.7
17.5°	375.5	377.4	380.2	382.1	383.0
20°	368.0	369.9	373.7	376.5	377.4
22.5°	361.5	363.3	367.1	369.9	371.8
25°	354.0	355.9	361.5	363.3	365.2
27.5°	344.6	346.5	351.2	354.9	357.7
30°	335.3	337.1	342.7	347.4	349.3
32.5°	325.0	327.8	334.3	338.1	340.9
35°	313.7	316.5	323.1	329.6	332.4
37.5°	302.5	305.3	311.8	320.3	324.0
40°	289.4	293.1	301.5	312.8	314.7
42.5°	277.2	281.9	289.4	302.5	307.2
45°	263.1	267.8	278.1	292.2	299.7
47.5°	250.0	254.7	266.0	282.8	292.2
50°	234.1	240.7	254.7	274.4	283.7
52.5°	219.1	224.8	243.5	265.0	276.3
55°	203.2	209.8	232.2	255.7	267.8
57.5°	189.2	194.8	220.1	246.3	260.3
60°	171.4	178.9	207.9	236.0	250.0
62.5°	152.6	163.9	195.7	224.8	239.7
65°	134.9	148.0	184.5	213.5	228.5
67.5°	118.9	133.0	170.4	201.3	215.4
70°	100.2	118.0	156.4	186.4	202.3
72.5°	83.3	103.0	140.5	170.4	184.5
75°	66.5	88.0	124.6	149.8	158.3
77.5°	51.5	72.1	106.8	114.2	115.2
80°	38.4	57.1	79.6	80.5	83.3
82.5°	26.2	40.3	51.5	56.2	57.1
85°	16.9	23.4	29.0	30.0	31.8
87.5°	7.5	8.4	10.3	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)