

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: P277608

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277608
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-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1265.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

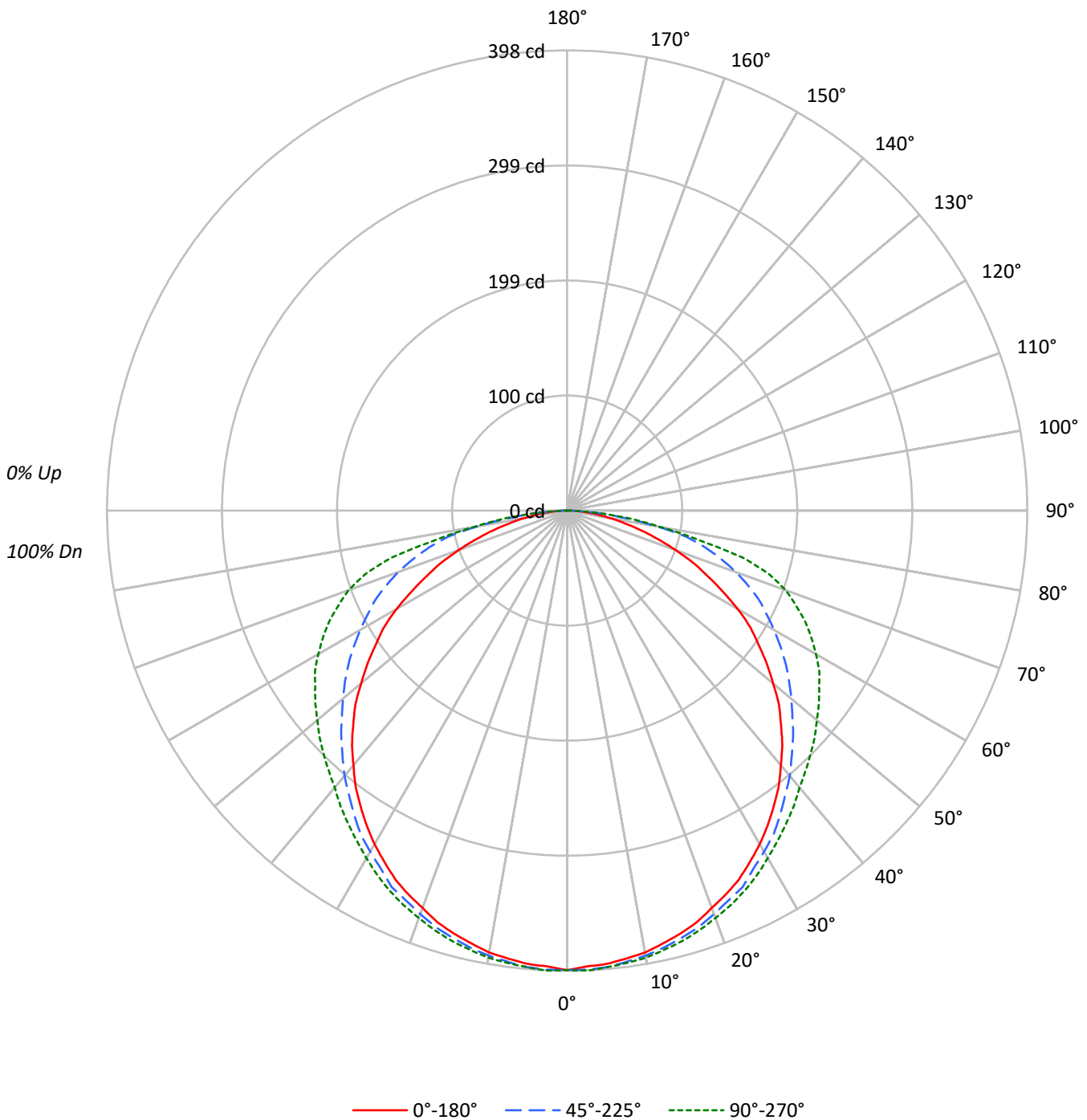
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1069	1069	1069
5°	1063	1071	1071
10°	1060	1068	1073
15°	1055	1066	1073
20°	1047	1063	1074
25°	1045	1067	1078
30°	1035	1058	1079
35°	1024	1055	1085
40°	1010	1052	1098
45°	995	1052	1133
50°	974	1060	1181
55°	947	1083	1248
60°	917	1112	1337
65°	853	1167	1446
70°	784	1223	1581
75°	687	1287	1635
80°	592	1226	1283
85°	519	889	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	3.0
10°-20°	107.9	8.5
20°-30°	164.7	13.0
30°-40°	201.0	15.9
40°-50°	215.0	17.0
50°-60°	207.5	16.4
60°-70°	178.6	14.1
70°-80°	120.9	9.6
80°-90°	31.9	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°	310.2	24.5
0°-40°	511.2	40.4
0°-60°	933.7	73.8
0°-90°	1265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	397	397	397	397	397	
5°	394	395	396	396	396	37
15°	379	380	382	384	385	107
25°	352	354	359	361	363	162
35°	312	314	321	328	330	195
45°	262	266	276	290	298	202
55°	202	208	231	254	266	181
65°	134	147	183	212	227	133
75°	66	88	124	149	157	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°	397.4	397.4	397.4	397.4	397.4
2.5°	394.6	395.5	397.4	397.4	398.3
5°	393.6	394.6	396.4	396.4	396.4
7.5°	390.8	391.8	393.6	394.6	394.6
10°	388.1	389.0	390.8	391.8	392.7
12.5°	383.4	384.3	387.1	389.0	389.0
15°	378.7	379.7	382.5	384.3	385.3
17.5°	373.2	375.0	377.8	379.7	380.6
20°	365.7	367.6	371.3	374.1	375.0
22.5°	359.2	361.1	364.8	367.6	369.4
25°	351.8	353.6	359.2	361.1	362.9
27.5°	342.5	344.3	349.0	352.7	355.5
30°	333.1	335.0	340.6	345.2	347.1
32.5°	322.9	325.7	332.2	335.9	338.7
35°	311.7	314.5	321.1	327.6	330.4
37.5°	300.6	303.4	309.9	318.3	322.0
40°	287.5	291.3	299.6	310.8	312.7
42.5°	275.5	280.1	287.5	300.6	305.2
45°	261.5	266.1	276.4	290.3	297.8
47.5°	248.5	253.1	264.3	281.0	290.3
50°	232.6	239.2	253.1	272.7	282.0
52.5°	217.8	223.3	242.0	263.4	274.5
55°	201.9	208.5	230.8	254.0	266.1
57.5°	188.0	193.6	218.7	244.7	258.7
60°	170.3	177.7	206.6	234.5	248.5
62.5°	151.7	162.9	194.5	223.3	238.2
65°	134.0	147.0	183.3	212.2	227.1
67.5°	118.2	132.1	169.4	200.1	214.0
70°	99.6	117.3	155.4	185.2	201.0
72.5°	82.8	102.4	139.6	169.4	183.3
75°	66.1	87.5	123.8	148.9	157.3
77.5°	51.2	71.7	106.1	113.5	114.5
80°	38.2	56.8	79.1	80.0	82.8
82.5°	26.1	40.0	51.2	55.8	56.8
85°	16.8	23.3	28.8	29.8	31.6
87.5°	7.4	8.4	10.2	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)