

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: P277606

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277606
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-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1221.0 lumens
Efficiency: N/A
Efficacy: 77.2 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

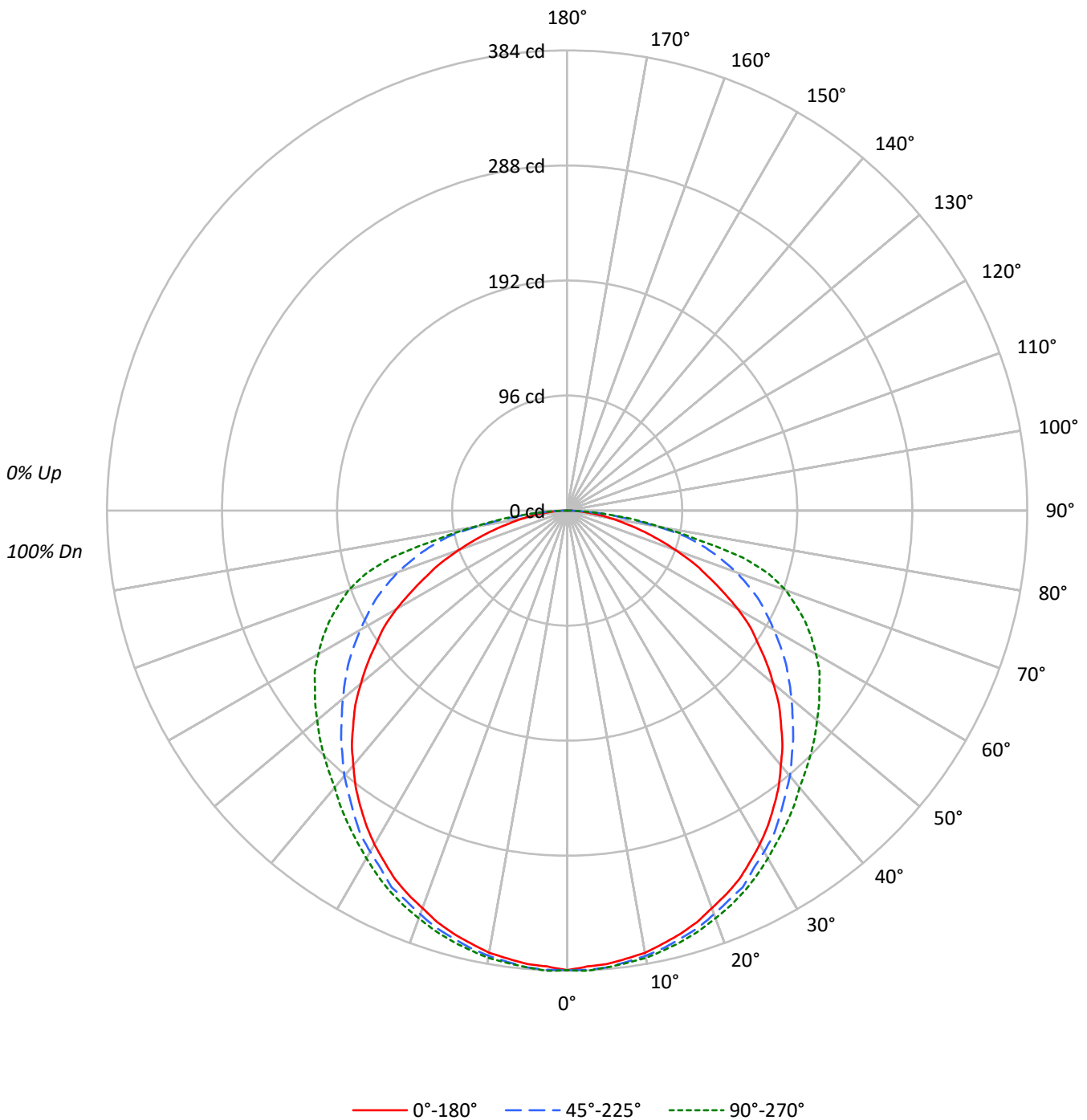
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1032	1032	1032
5°	1026	1034	1034
10°	1024	1031	1036
15°	1019	1029	1036
20°	1011	1026	1037
25°	1008	1029	1040
30°	999	1021	1041
35°	988	1018	1048
40°	975	1016	1060
45°	961	1015	1094
50°	940	1023	1140
55°	914	1045	1205
60°	885	1073	1291
65°	823	1126	1396
70°	756	1180	1526
75°	663	1242	1578
80°	570	1182	1238
85°	500	858	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	3.0
10°-20°	104.2	8.5
20°-30°	158.9	13.0
30°-40°	194.1	15.9
40°-50°	207.5	17.0
50°-60°	200.3	16.4
60°-70°	172.4	14.1
70°-80°	116.6	9.6
80°-90°	30.8	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°	299.4	24.5
0°-40°	493.4	40.4
0°-60°	901.2	73.8
0°-90°	1221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	380	381	383	383	383	36
15°	366	366	369	371	372	103
25°	340	341	347	348	350	156
35°	301	304	310	316	319	188
45°	252	257	267	280	287	195
55°	195	201	223	245	257	175
65°	129	142	177	205	219	129
75°	64	84	120	144	152	68
85°	16	22	28	29	30	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	383.5	383.5	383.5	383.5	383.5
2.5°	380.8	381.7	383.5	383.5	384.4
5°	379.9	380.8	382.6	382.6	382.6
7.5°	377.2	378.1	379.9	380.8	380.8
10°	374.6	375.5	377.2	378.1	379.0
12.5°	370.1	371.0	373.7	375.5	375.5
15°	365.6	366.5	369.2	371.0	371.9
17.5°	360.2	362.0	364.7	366.5	367.4
20°	353.0	354.8	358.4	361.1	362.0
22.5°	346.7	348.5	352.1	354.8	356.6
25°	339.5	341.3	346.7	348.5	350.3
27.5°	330.5	332.3	336.8	340.4	343.1
30°	321.6	323.4	328.7	333.2	335.0
32.5°	311.7	314.4	320.7	324.3	326.9
35°	300.9	303.6	309.9	316.2	318.9
37.5°	290.1	292.8	299.1	307.2	310.8
40°	277.5	281.1	289.2	300.0	301.8
42.5°	265.9	270.4	277.5	290.1	294.6
45°	252.4	256.9	266.8	280.2	287.4
47.5°	239.8	244.3	255.1	271.3	280.2
50°	224.6	230.8	244.3	263.2	272.2
52.5°	210.2	215.6	233.5	254.2	265.0
55°	194.9	201.2	222.8	245.2	256.9
57.5°	181.4	186.8	211.1	236.2	249.7
60°	164.4	171.6	199.4	226.3	239.8
62.5°	146.4	157.2	187.7	215.6	229.9
65°	129.3	141.9	176.9	204.8	219.2
67.5°	114.1	127.5	163.5	193.1	206.6
70°	96.1	113.2	150.0	178.7	194.0
72.5°	79.9	98.8	134.7	163.5	176.9
75°	63.8	84.4	119.5	143.7	151.8
77.5°	49.4	69.2	102.4	109.6	110.5
80°	36.8	54.8	76.3	77.2	79.9
82.5°	25.1	38.6	49.4	53.9	54.8
85°	16.2	22.5	27.8	28.7	30.5
87.5°	7.2	8.1	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)