

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: P277519

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277519
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-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1145.0 lumens
Efficiency: N/A
Efficacy: 72.3 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

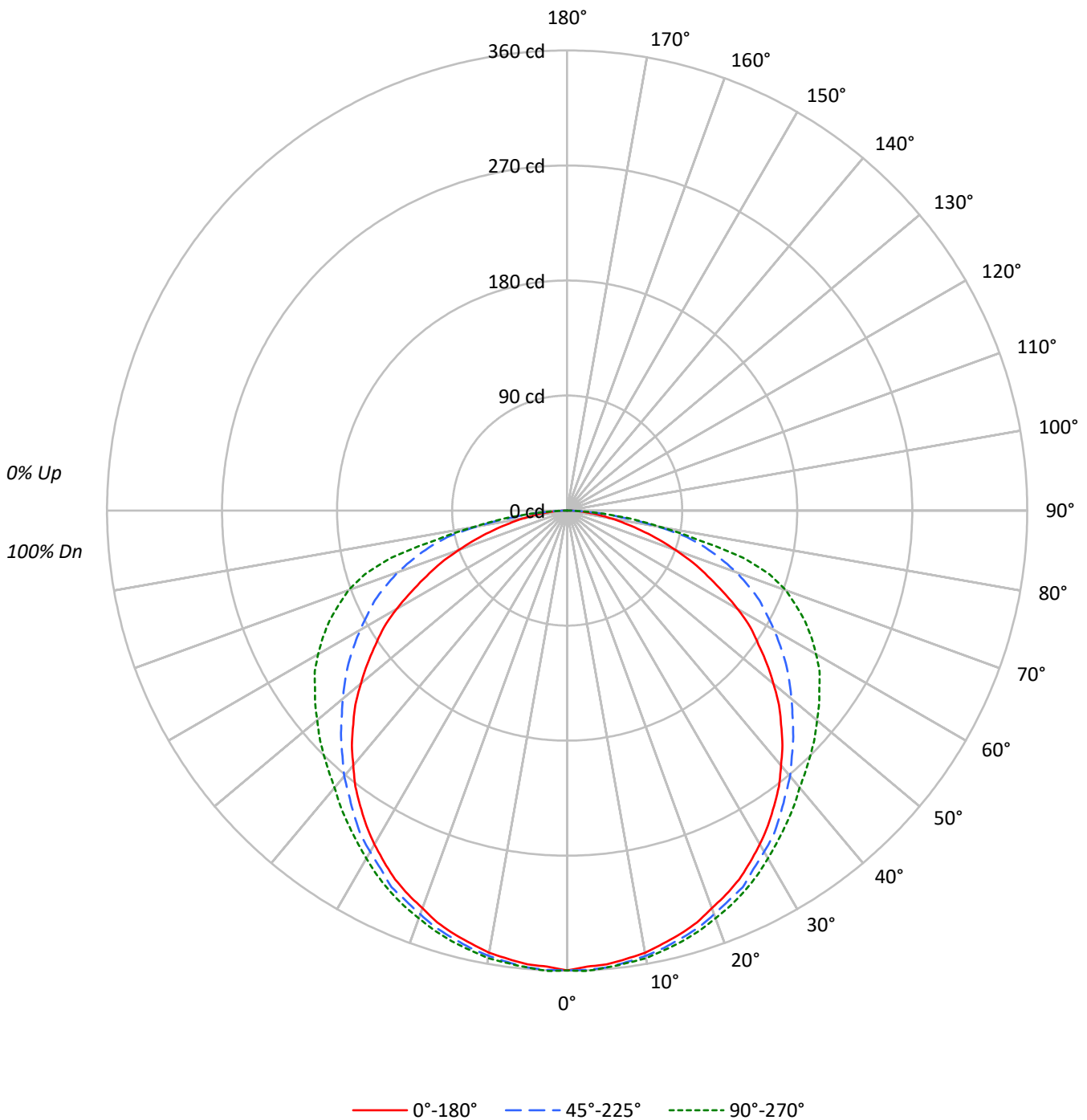
Input Watts (W): 15.826089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	968	968	968
5°	962	969	969
10°	960	967	971
15°	955	964	971
20°	948	962	972
25°	945	965	975
30°	937	958	976
35°	927	955	982
40°	914	953	994
45°	901	952	1026
50°	882	959	1068
55°	858	980	1130
60°	829	1006	1210
65°	772	1056	1309
70°	709	1107	1431
75°	622	1164	1480
80°	535	1110	1162
85°	469	806	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	3.0
10°-20°	97.7	8.5
20°-30°	149.0	13.0
30°-40°	182.0	15.9
40°-50°	194.6	17.0
50°-60°	187.8	16.4
60°-70°	161.7	14.1
70°-80°	109.4	9.6
80°-90°	28.9	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°	280.7	24.5
0°-40°	462.7	40.4
0°-60°	845.1	73.8
0°-90°	1145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	360	360	360	360	360	
5°	356	357	359	359	359	34
15°	343	344	346	348	349	97
25°	318	320	325	327	328	147
35°	282	285	291	296	299	177
45°	237	241	250	263	270	183
55°	183	189	209	230	241	164
65°	121	133	166	192	206	121
75°	60	79	112	135	142	64
85°	15	21	26	27	29	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	359.7	359.7	359.7	359.7	359.7
2.5°	357.1	358.0	359.7	359.7	360.5
5°	356.3	357.1	358.8	358.8	358.8
7.5°	353.8	354.6	356.3	357.1	357.1
10°	351.2	352.1	353.8	354.6	355.5
12.5°	347.0	347.9	350.4	352.1	352.1
15°	342.8	343.7	346.2	347.9	348.7
17.5°	337.8	339.4	342.0	343.7	344.5
20°	331.0	332.7	336.1	338.6	339.4
22.5°	325.1	326.8	330.2	332.7	334.4
25°	318.4	320.1	325.1	326.8	328.5
27.5°	310.0	311.7	315.9	319.2	321.8
30°	301.5	303.2	308.3	312.5	314.2
32.5°	292.3	294.8	300.7	304.1	306.6
35°	282.2	284.7	290.6	296.5	299.0
37.5°	272.1	274.6	280.5	288.1	291.4
40°	260.3	263.6	271.2	281.3	283.0
42.5°	249.3	253.5	260.3	272.1	276.3
45°	236.7	240.9	250.2	262.8	269.5
47.5°	224.9	229.1	239.2	254.4	262.8
50°	210.6	216.5	229.1	246.8	255.2
52.5°	197.1	202.2	219.0	238.4	248.5
55°	182.8	188.7	208.9	229.9	240.9
57.5°	170.1	175.2	197.9	221.5	234.2
60°	154.1	160.9	187.0	212.3	224.9
62.5°	137.3	147.4	176.0	202.2	215.6
65°	121.3	133.1	165.9	192.0	205.5
67.5°	107.0	119.6	153.3	181.1	193.7
70°	90.1	106.1	140.7	167.6	181.9
72.5°	75.0	92.7	126.3	153.3	165.9
75°	59.8	79.2	112.0	134.8	142.3
77.5°	46.3	64.9	96.0	102.8	103.6
80°	34.5	51.4	71.6	72.4	75.0
82.5°	23.6	36.2	46.3	50.5	51.4
85°	15.2	21.1	26.1	27.0	28.6
87.5°	6.7	7.6	9.3	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)