

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: P260416

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1461.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

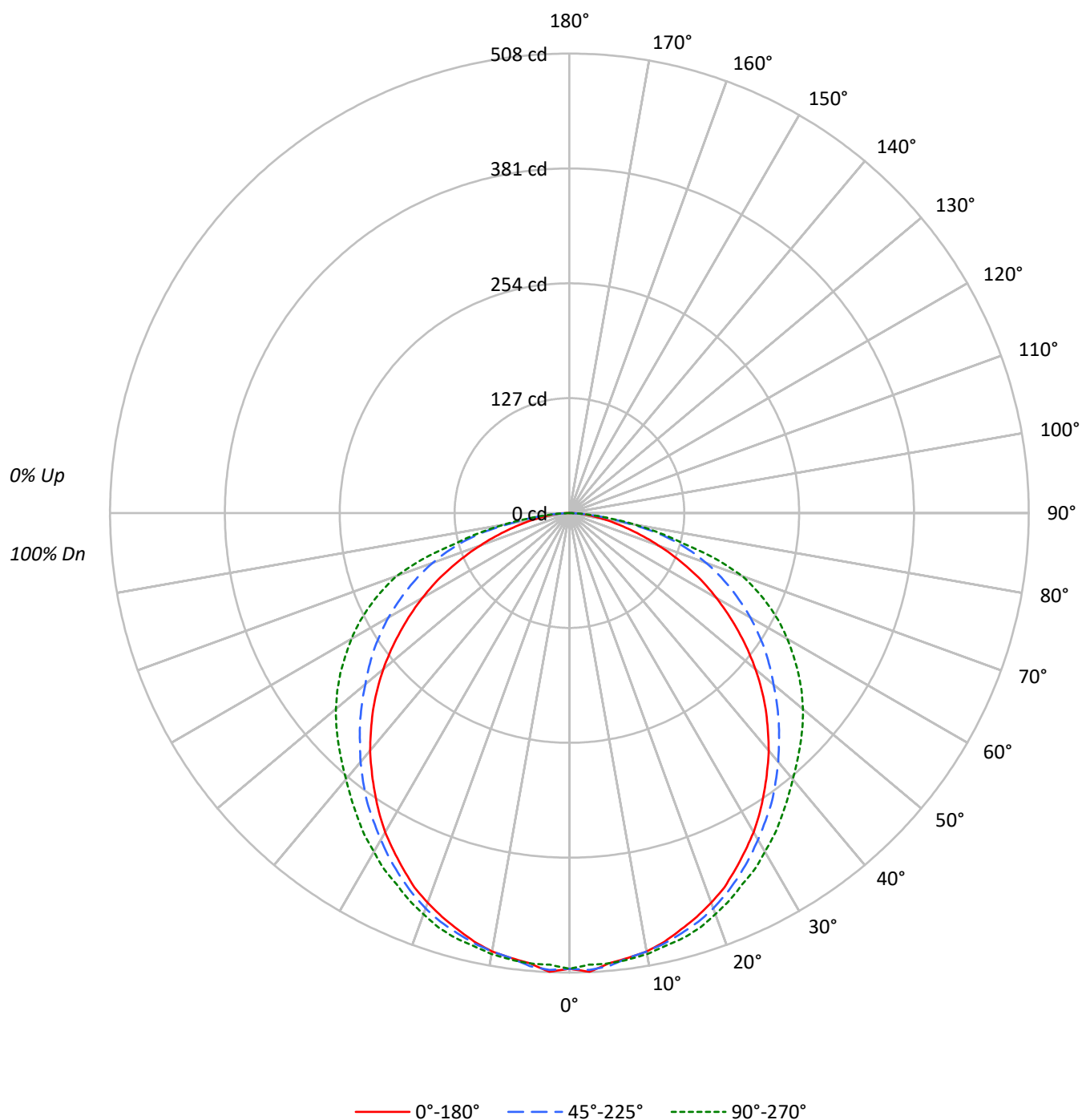
Input Watts (W): 15.934806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1355	1355	1355
5°	1350	1358	1350
10°	1345	1345	1353
15°	1328	1339	1355
20°	1313	1332	1351
25°	1290	1315	1344
30°	1266	1296	1344
35°	1234	1282	1345
40°	1205	1262	1350
45°	1169	1246	1375
50°	1125	1234	1411
55°	1071	1238	1451
60°	1011	1244	1498
65°	932	1251	1552
70°	826	1265	1599
75°	701	1261	1362
80°	583	1015	1134
85°	506	685	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	3.3
10°-20°	135.7	9.3
20°-30°	204.2	14.0
30°-40°	244.7	16.8
40°-50°	255.2	17.5
50°-60°	237.6	16.3
60°-70°	192.9	13.2
70°-80°	116.3	8.0
80°-90°	26.7	1.8
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°	387.6	26.5
0°-40°	632.3	43.3
0°-60°	1125.1	77.0
0°-90°	1461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	500	500	503	504	500	48
15°	477	479	481	484	486	135
25°	434	437	443	449	453	200
35°	376	380	390	402	409	235
45°	307	313	328	349	361	237
55°	228	238	264	293	309	204
65°	146	162	196	227	244	145
75°	67	90	121	129	131	73
85°	16	20	22	21	21	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	503.7	503.7	503.7	503.7	503.7
2.5°	507.6	506.6	505.6	502.7	499.8
5°	499.8	499.8	502.7	503.7	499.8
7.5°	496.0	496.0	496.0	499.8	497.9
10°	492.1	492.1	492.1	495.0	495.0
12.5°	485.4	486.4	487.3	488.3	490.2
15°	476.7	478.7	480.6	483.5	486.4
17.5°	468.1	470.0	473.8	476.7	480.6
20°	458.4	460.4	465.2	468.1	471.9
22.5°	447.8	448.8	454.6	458.4	463.2
25°	434.4	437.2	443.0	448.8	452.7
27.5°	420.9	423.8	430.5	438.2	444.0
30°	407.4	410.3	417.0	426.7	432.4
32.5°	392.0	395.8	403.5	415.1	421.8
35°	375.6	380.4	390.1	401.6	409.3
37.5°	359.2	364.0	374.6	389.1	396.8
40°	342.9	347.7	359.2	374.6	384.3
42.5°	324.6	330.3	342.9	361.2	372.7
45°	307.2	313.0	327.5	348.6	361.2
47.5°	288.0	294.7	311.1	335.2	349.6
50°	268.7	276.4	294.7	321.7	337.1
52.5°	248.5	257.1	279.3	307.2	323.6
55°	228.3	237.9	263.9	292.8	309.2
57.5°	208.0	218.6	247.5	277.4	293.7
60°	187.8	199.4	231.1	262.0	278.3
62.5°	167.6	180.1	213.8	244.6	262.0
65°	146.4	161.8	196.5	227.3	243.7
67.5°	125.2	143.5	179.1	209.0	224.4
70°	105.0	125.2	160.8	188.8	203.2
72.5°	85.7	106.9	141.6	165.7	171.4
75°	67.4	89.6	121.3	129.1	131.0
77.5°	52.0	72.2	96.3	98.2	103.1
80°	37.6	54.9	65.5	71.3	73.2
82.5°	26.0	37.6	43.3	44.3	45.3
85°	16.4	20.2	22.2	21.2	21.2
87.5°	8.7	7.7	6.7	4.8	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)