

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: P259238

Luminaire Tested: **22CZ-LD5-20-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

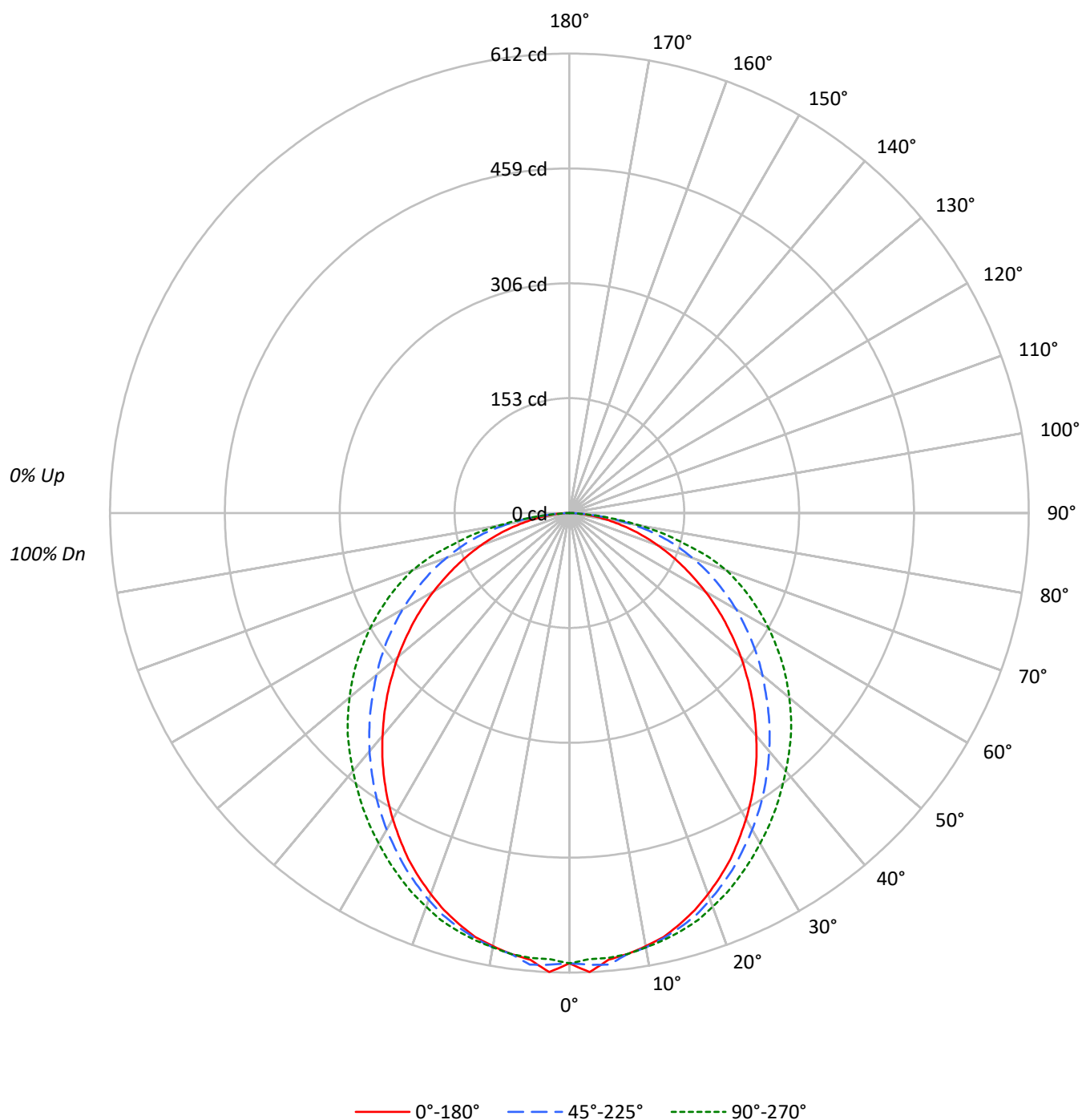
Input Watts (W): 15.888213
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1614	1614	1614
5°	1613	1631	1606
10°	1601	1605	1605
15°	1580	1591	1605
20°	1546	1570	1598
25°	1509	1543	1589
30°	1462	1513	1579
35°	1414	1484	1576
40°	1360	1455	1576
45°	1306	1427	1589
50°	1248	1406	1600
55°	1188	1392	1621
60°	1125	1380	1649
65°	1056	1373	1691
70°	983	1369	1748
75°	892	1367	1656
80°	772	1266	1469
85°	655	957	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	3.4
10°-20°	161.1	9.6
20°-30°	239.7	14.3
30°-40°	283.4	16.9
40°-50°	291.3	17.3
50°-60°	266.2	15.8
60°-70°	213.0	12.7
70°-80°	133.6	8.0
80°-90°	34.8	2.1
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°	457.6	27.2
0°-40°	741.1	44.1
0°-60°	1298.6	77.3
0°-90°	1680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	597	597	604	600	595	57
15°	567	568	571	574	576	160
25°	508	511	520	529	535	234
35°	430	436	452	469	480	269
45°	343	352	375	403	418	265
55°	253	266	297	329	346	227
65°	166	180	216	248	266	165
75°	86	102	132	151	159	91
85°	21	27	31	30	30	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.6	599.6	599.6	599.6	599.6
2.5°	611.9	609.5	602.1	597.2	594.7
5°	597.2	597.2	603.7	599.6	594.7
7.5°	592.3	592.3	592.3	604.6	592.3
10°	585.8	586.6	587.4	592.3	587.4
12.5°	578.4	578.4	580.0	581.7	582.5
15°	567.0	567.8	571.1	574.3	576.0
17.5°	554.7	557.2	561.3	565.3	568.6
20°	540.0	543.3	548.2	554.7	558.0
22.5°	524.5	527.8	534.3	541.6	547.4
25°	508.1	511.4	519.6	528.6	535.1
27.5°	489.4	493.4	503.2	515.5	522.0
30°	470.6	475.5	486.9	500.8	508.1
32.5°	451.0	456.7	469.8	485.3	494.3
35°	430.5	436.3	451.8	468.9	479.6
37.5°	409.3	415.8	433.0	452.6	464.0
40°	387.2	394.6	414.2	435.4	448.5
42.5°	365.2	373.4	394.6	419.9	433.0
45°	343.1	352.1	375.0	402.8	417.5
47.5°	320.2	330.9	354.6	385.6	400.3
50°	298.2	308.8	335.8	367.6	382.3
52.5°	275.3	287.6	316.2	348.8	364.4
55°	253.3	265.5	296.6	329.2	345.6
57.5°	231.2	243.5	276.1	309.6	326.0
60°	209.1	222.2	256.5	289.2	306.4
62.5°	187.1	201.0	236.1	269.6	285.9
65°	165.8	180.5	215.7	248.4	265.5
67.5°	145.4	160.9	195.3	227.1	244.3
70°	125.0	140.5	174.0	205.1	222.2
72.5°	105.4	120.9	153.6	181.4	194.4
75°	85.8	102.1	131.5	151.1	159.3
77.5°	67.0	83.3	108.7	121.7	130.7
80°	49.8	63.7	81.7	91.5	94.8
82.5°	34.3	45.7	57.2	59.6	61.3
85°	21.2	27.0	31.0	30.2	30.2
87.5°	9.8	10.6	9.0	6.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)