

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: P259240

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259240
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

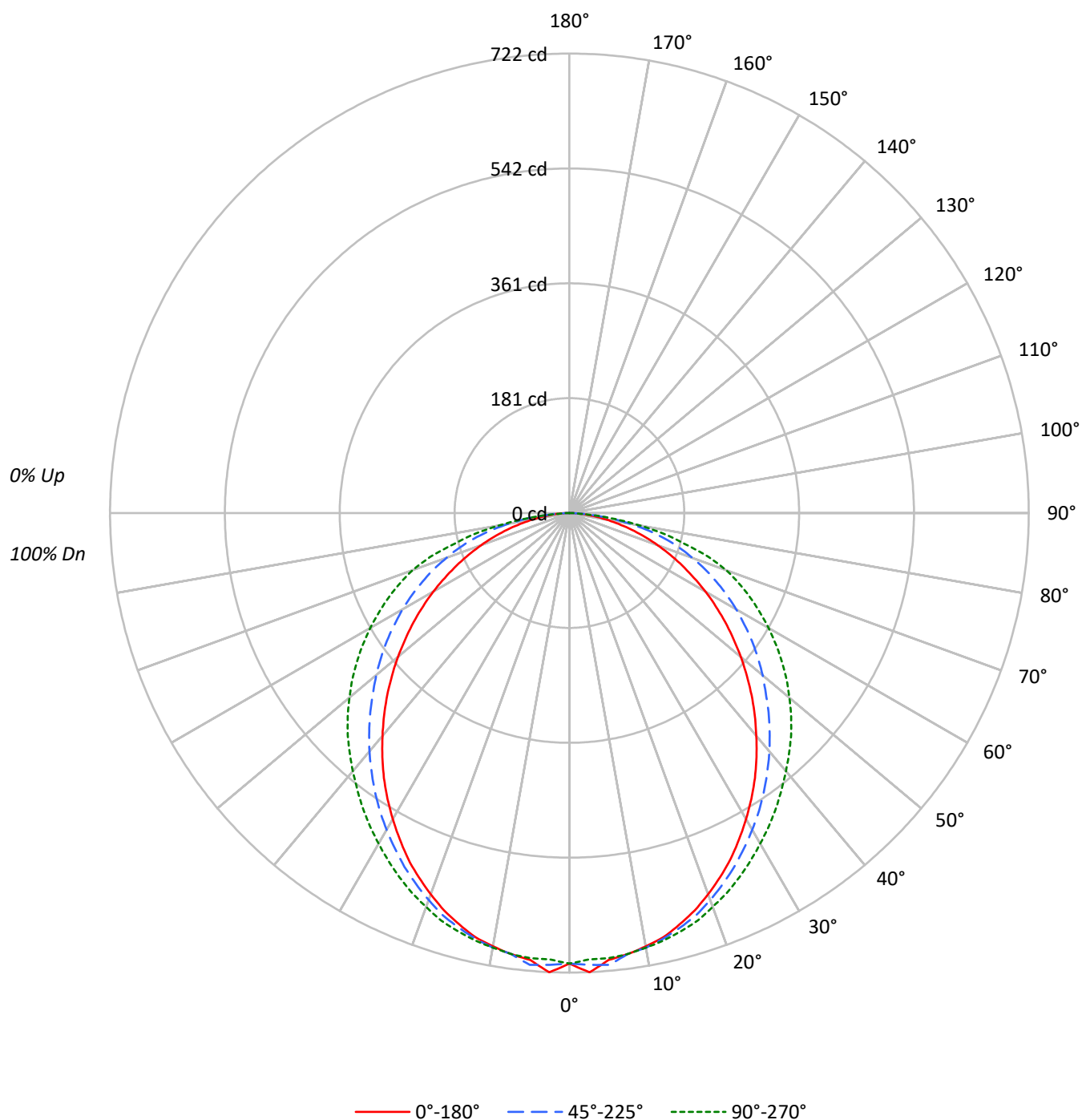
Input Watts (W): 15.934806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1905	1905	1905
5°	1904	1925	1896
10°	1889	1894	1894
15°	1864	1878	1894
20°	1825	1853	1886
25°	1781	1821	1875
30°	1726	1786	1864
35°	1669	1752	1859
40°	1606	1717	1860
45°	1541	1684	1875
50°	1474	1659	1889
55°	1402	1642	1914
60°	1329	1630	1946
65°	1247	1621	1996
70°	1161	1616	2064
75°	1053	1615	1955
80°	911	1494	1734
85°	775	1130	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.4
10°-20°	190.2	9.6
20°-30°	282.9	14.3
30°-40°	334.6	16.9
40°-50°	343.9	17.3
50°-60°	314.2	15.8
60°-70°	251.4	12.7
70°-80°	157.8	8.0
80°-90°	41.1	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°	540.2	27.2
0°-40°	874.7	44.1
0°-60°	1532.8	77.3
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	705	705	713	708	702	67
15°	669	670	674	678	680	189
25°	600	604	613	624	632	276
35°	508	515	533	554	566	318
45°	405	416	443	475	493	312
55°	299	313	350	389	408	267
65°	196	213	255	293	313	194
75°	101	120	155	178	188	108
85°	25	32	37	36	36	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.8	707.8	707.8	707.8	707.8
2.5°	722.3	719.4	710.7	704.9	702.0
5°	704.9	704.9	712.6	707.8	702.0
7.5°	699.1	699.1	699.1	713.6	699.1
10°	691.4	692.4	693.3	699.1	693.3
12.5°	682.7	682.7	684.7	686.6	687.5
15°	669.2	670.2	674.0	677.9	679.8
17.5°	654.8	657.7	662.5	667.3	671.2
20°	637.4	641.3	647.0	654.8	658.6
22.5°	619.1	622.9	630.7	639.3	646.1
25°	599.8	603.7	613.3	623.9	631.6
27.5°	577.6	582.4	594.0	608.5	616.2
30°	555.4	561.2	574.7	591.1	599.8
32.5°	532.3	539.0	554.5	572.8	583.4
35°	508.2	514.9	533.3	553.5	566.0
37.5°	483.1	490.8	511.1	534.2	547.7
40°	457.1	465.8	488.9	514.0	529.4
42.5°	431.0	440.7	465.8	495.7	511.1
45°	405.0	415.6	442.6	475.4	492.8
47.5°	378.0	390.5	418.5	455.2	472.5
50°	352.0	364.5	396.3	433.9	451.3
52.5°	325.0	339.4	373.2	411.8	430.1
55°	298.9	313.4	350.0	388.6	407.9
57.5°	272.9	287.4	325.9	365.5	384.8
60°	246.9	262.3	302.8	341.4	361.6
62.5°	220.8	237.2	278.7	318.2	337.5
65°	195.8	213.1	254.6	293.1	313.4
67.5°	171.6	190.0	230.5	268.1	288.3
70°	147.5	165.9	205.4	242.0	262.3
72.5°	124.4	142.7	181.3	214.1	229.5
75°	101.3	120.5	155.3	178.4	188.0
77.5°	79.1	98.4	128.3	143.7	154.3
80°	58.8	75.2	96.4	108.0	111.9
82.5°	40.5	54.0	67.5	70.4	72.3
85°	25.1	31.8	36.6	35.7	35.7
87.5°	11.6	12.5	10.6	7.7	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)