

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: P259208

Luminaire Tested: **22CZ-LD5-20-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259208
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-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2041.0 lumens
Efficiency: N/A
Efficacy: 131.4 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

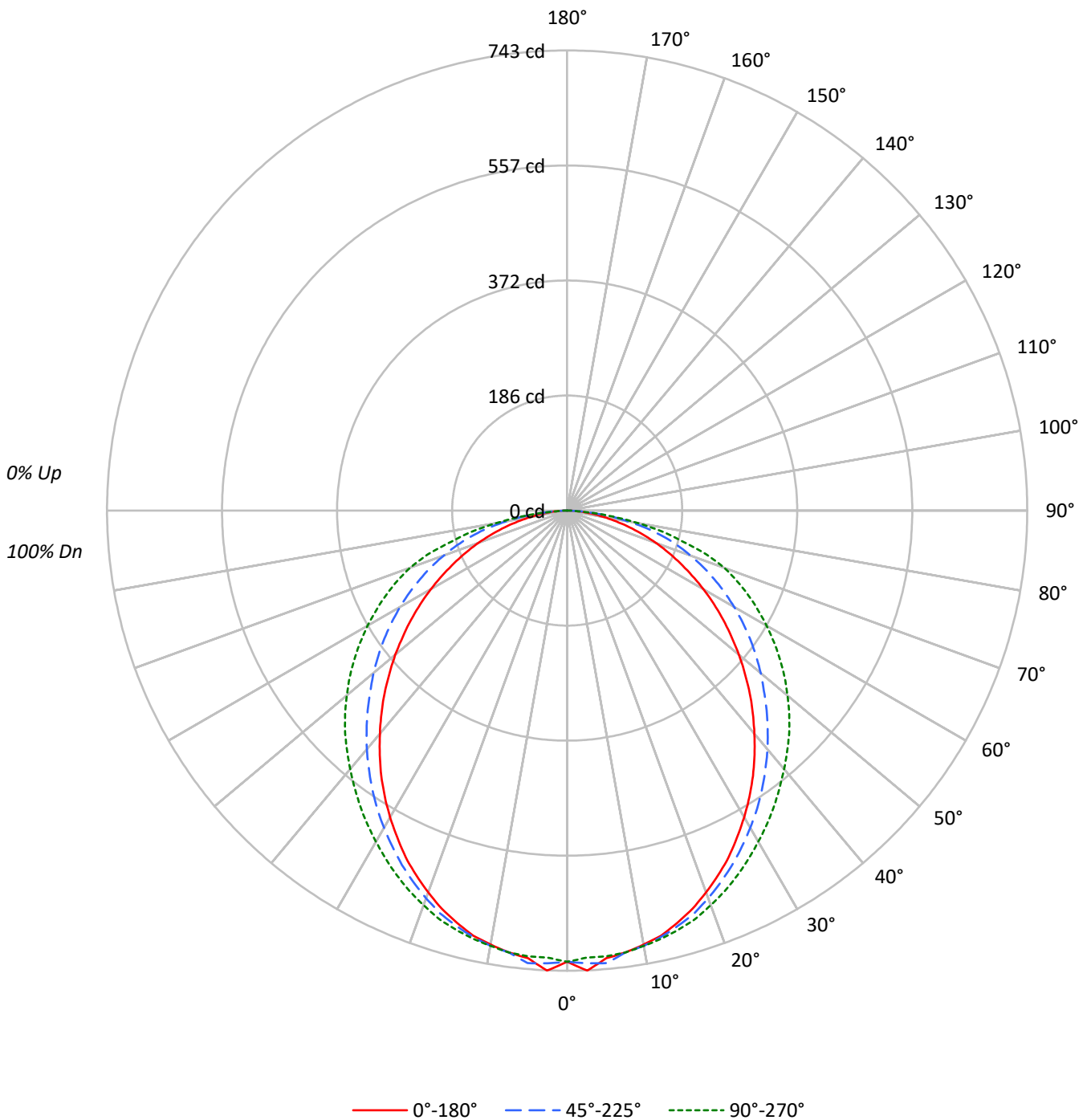
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1960	1960	1960
5°	1960	1981	1952
10°	1944	1950	1950
15°	1919	1933	1949
20°	1879	1907	1941
25°	1833	1874	1930
30°	1776	1838	1918
35°	1718	1803	1914
40°	1652	1768	1914
45°	1587	1734	1930
50°	1517	1708	1945
55°	1444	1690	1970
60°	1368	1677	2003
65°	1283	1668	2054
70°	1195	1663	2124
75°	1083	1661	2012
80°	938	1539	1784
85°	797	1164	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	3.4
10°-20°	195.7	9.6
20°-30°	291.1	14.3
30°-40°	344.3	16.9
40°-50°	353.9	17.3
50°-60°	323.4	15.8
60°-70°	258.7	12.7
70°-80°	162.4	8.0
80°-90°	42.3	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°	556.0	27.2
0°-40°	900.3	44.1
0°-60°	1577.7	77.3
0°-90°	2041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	726	726	734	728	722	69
15°	689	690	694	698	700	194
25°	617	621	631	642	650	284
35°	523	530	549	570	583	327
45°	417	428	456	489	507	321
55°	308	323	360	400	420	275
65°	202	219	262	302	323	200
75°	104	124	160	184	194	111
85°	26	33	38	37	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.5	728.5	728.5	728.5	728.5
2.5°	743.4	740.4	731.5	725.5	722.5
5°	725.5	725.5	733.5	728.5	722.5
7.5°	719.6	719.6	719.6	734.5	719.6
10°	711.6	712.6	713.6	719.6	713.6
12.5°	702.7	702.7	704.7	706.7	707.7
15°	688.8	689.8	693.8	697.7	699.7
17.5°	673.9	676.9	681.9	686.8	690.8
20°	656.0	660.0	666.0	673.9	677.9
22.5°	637.2	641.2	649.1	658.0	665.0
25°	617.3	621.3	631.2	642.2	650.1
27.5°	594.5	599.5	611.4	626.3	634.2
30°	571.7	577.6	591.5	608.4	617.3
32.5°	547.9	554.8	570.7	589.6	600.5
35°	523.1	530.0	548.9	569.7	582.6
37.5°	497.2	505.2	526.0	549.9	563.7
40°	470.4	479.4	503.2	529.0	544.9
42.5°	443.7	453.6	479.4	510.1	526.0
45°	416.9	427.8	455.6	489.3	507.2
47.5°	389.1	402.0	430.7	468.5	486.3
50°	362.3	375.2	407.9	446.6	464.5
52.5°	334.5	349.4	384.1	423.8	442.7
55°	307.7	322.6	360.3	400.0	419.8
57.5°	280.9	295.8	335.5	376.2	396.0
60°	254.1	270.0	311.6	351.3	372.2
62.5°	227.3	244.2	286.8	327.5	347.4
65°	201.5	219.3	262.0	301.7	322.6
67.5°	176.7	195.5	237.2	275.9	296.8
70°	151.9	170.7	211.4	249.1	270.0
72.5°	128.0	146.9	186.6	220.3	236.2
75°	104.2	124.1	159.8	183.6	193.5
77.5°	81.4	101.2	132.0	147.9	158.8
80°	60.5	77.4	99.3	111.2	115.1
82.5°	41.7	55.6	69.5	72.5	74.4
85°	25.8	32.8	37.7	36.7	36.7
87.5°	11.9	12.9	10.9	7.9	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)