

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: P259246

Luminaire Tested: **22CZ-LD5-24-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259246
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-LD5-24-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2276.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

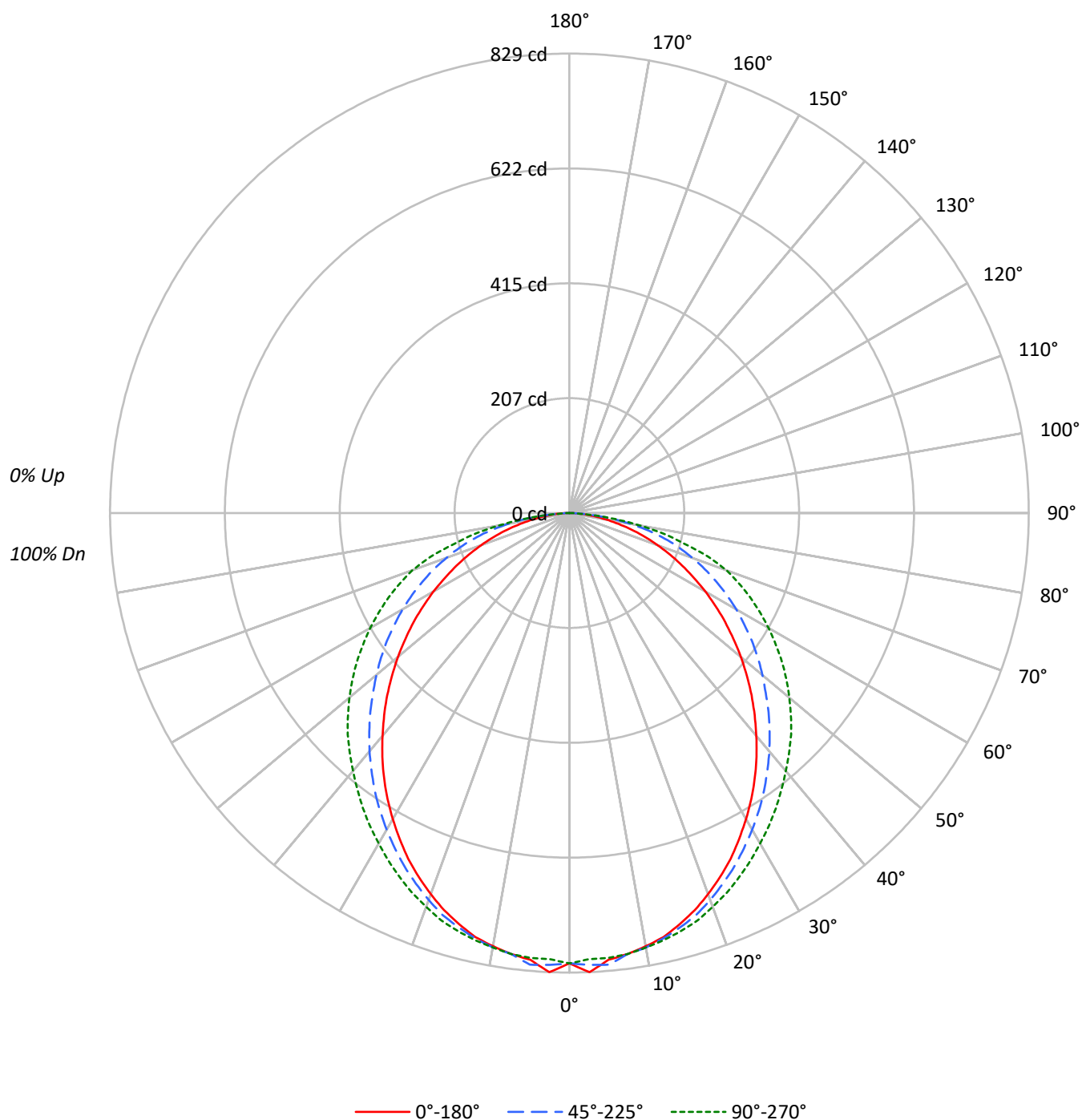
Input Watts (W): 18.315234
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2186	2186	2186
5°	2186	2209	2176
10°	2169	2175	2175
15°	2140	2155	2174
20°	2095	2127	2165
25°	2044	2090	2152
30°	1981	2050	2139
35°	1916	2011	2134
40°	1843	1971	2134
45°	1769	1933	2152
50°	1691	1904	2169
55°	1610	1885	2197
60°	1525	1870	2234
65°	1431	1861	2290
70°	1332	1854	2368
75°	1208	1853	2244
80°	1046	1715	1990
85°	889	1300	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.4
10°-20°	218.3	9.6
20°-30°	324.7	14.3
30°-40°	384.0	16.9
40°-50°	394.7	17.3
50°-60°	360.6	15.8
60°-70°	288.5	12.7
70°-80°	181.1	8.0
80°-90°	47.2	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°	620.0	27.2
0°-40°	1004.0	44.1
0°-60°	1759.3	77.3
0°-90°	2276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	809	809	818	812	806	77
15°	768	769	774	778	780	216
25°	688	693	704	716	725	317
35°	583	591	612	635	650	365
45°	465	477	508	546	566	358
55°	343	360	402	446	468	307
65°	225	245	292	336	360	223
75°	116	138	178	205	216	123
85°	29	36	42	41	41	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.4	812.4	812.4	812.4	812.4
2.5°	829.0	825.7	815.7	809.1	805.7
5°	809.1	809.1	817.9	812.4	805.7
7.5°	802.4	802.4	802.4	819.0	802.4
10°	793.6	794.7	795.8	802.4	795.8
12.5°	783.6	783.6	785.8	788.0	789.1
15°	768.1	769.2	773.6	778.1	780.3
17.5°	751.5	754.8	760.4	765.9	770.3
20°	731.6	736.0	742.7	751.5	755.9
22.5°	710.6	715.0	723.8	733.8	741.5
25°	688.4	692.8	703.9	716.1	724.9
27.5°	663.0	668.5	681.8	698.4	707.2
30°	637.5	644.1	659.6	678.5	688.4
32.5°	610.9	618.7	636.4	657.4	669.6
35°	583.3	591.0	612.1	635.3	649.7
37.5°	554.5	563.4	586.6	613.2	628.7
40°	524.6	534.6	561.1	589.9	607.6
42.5°	494.7	505.8	534.6	568.9	586.6
45°	464.9	477.0	508.0	545.6	565.6
47.5°	433.9	448.2	480.3	522.4	542.3
50°	404.0	418.4	454.9	498.1	518.0
52.5°	373.0	389.6	428.3	472.6	493.6
55°	343.1	359.7	401.8	446.0	468.2
57.5°	313.2	329.8	374.1	419.5	441.6
60°	283.3	301.0	347.5	391.8	415.0
62.5°	253.5	272.3	319.9	365.2	387.4
65°	224.7	244.6	292.2	336.5	359.7
67.5°	197.0	218.0	264.5	307.7	330.9
70°	169.3	190.4	235.7	277.8	301.0
72.5°	142.8	163.8	208.1	245.7	263.4
75°	116.2	138.3	178.2	204.8	215.8
77.5°	90.8	112.9	147.2	164.9	177.1
80°	67.5	86.3	110.7	124.0	128.4
82.5°	46.5	62.0	77.5	80.8	83.0
85°	28.8	36.5	42.1	41.0	41.0
87.5°	13.3	14.4	12.2	8.9	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)