

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: P259334

Luminaire Tested: **22CZ-LD5-24-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259334
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-L92765-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: 2152.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

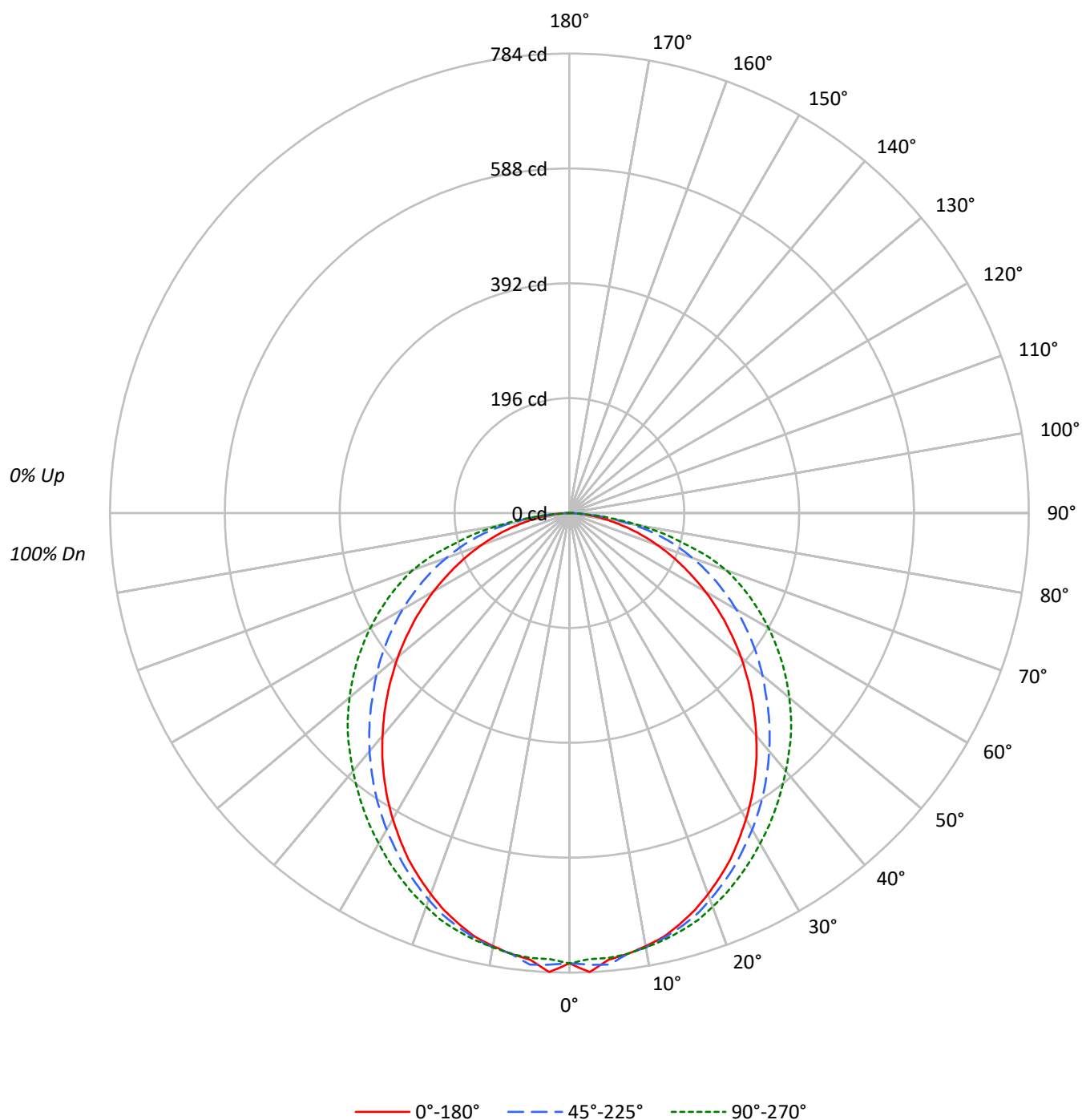
Input Watts (W): 17.763
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2067	2067	2067
5°	2066	2089	2058
10°	2050	2056	2056
15°	2023	2038	2055
20°	1981	2011	2047
25°	1933	1976	2035
30°	1873	1938	2023
35°	1812	1901	2018
40°	1742	1864	2018
45°	1673	1828	2035
50°	1599	1801	2051
55°	1522	1782	2077
60°	1442	1769	2112
65°	1352	1759	2166
70°	1260	1754	2239
75°	1143	1752	2122
80°	989	1621	1881
85°	840	1229	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.4
10°-20°	206.4	9.6
20°-30°	307.0	14.3
30°-40°	363.1	16.9
40°-50°	373.2	17.3
50°-60°	341.0	15.8
60°-70°	272.8	12.7
70°-80°	171.2	8.0
80°-90°	44.6	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°	586.2	27.2
0°-40°	949.3	44.1
0°-60°	1663.4	77.3
0°-90°	2152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	765	765	773	768	762	73
15°	726	727	732	736	738	205
25°	651	655	666	677	685	299
35°	552	559	579	601	614	345
45°	440	451	480	516	535	339
55°	324	340	380	422	443	290
65°	212	231	276	318	340	211
75°	110	131	168	194	204	117
85°	27	34	40	39	39	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.1	768.1	768.1	768.1	768.1
2.5°	783.8	780.7	771.3	765.0	761.8
5°	765.0	765.0	773.4	768.1	761.8
7.5°	758.7	758.7	758.7	774.4	758.7
10°	750.3	751.4	752.4	758.7	752.4
12.5°	740.9	740.9	743.0	745.1	746.1
15°	726.3	727.3	731.5	735.7	737.8
17.5°	710.6	713.7	718.9	724.2	728.4
20°	691.7	695.9	702.2	710.6	714.8
22.5°	671.8	676.0	684.4	693.8	701.1
25°	650.9	655.1	665.6	677.1	685.4
27.5°	626.8	632.1	644.6	660.3	668.7
30°	602.8	609.1	623.7	641.5	650.9
32.5°	577.7	585.0	601.7	621.6	633.1
35°	551.5	558.8	578.7	600.7	614.3
37.5°	524.3	532.7	554.6	579.8	594.4
40°	496.0	505.5	530.6	557.8	574.5
42.5°	467.8	478.2	505.5	537.9	554.6
45°	439.5	451.0	480.3	515.9	534.8
47.5°	410.2	423.8	454.2	493.9	512.8
50°	382.0	395.6	430.1	470.9	489.8
52.5°	352.7	368.4	405.0	446.8	466.7
55°	324.4	340.1	379.9	421.7	442.7
57.5°	296.2	311.9	353.7	396.6	417.5
60°	267.9	284.6	328.6	370.5	392.4
62.5°	239.6	257.4	302.4	345.3	366.3
65°	212.4	231.3	276.3	318.1	340.1
67.5°	186.3	206.2	250.1	290.9	312.9
70°	160.1	180.0	222.9	262.7	284.6
72.5°	135.0	154.9	196.7	232.3	249.1
75°	109.9	130.8	168.5	193.6	204.1
77.5°	85.8	106.7	139.2	155.9	167.4
80°	63.8	81.6	104.6	117.2	121.4
82.5°	44.0	58.6	73.3	76.4	78.5
85°	27.2	34.5	39.8	38.7	38.7
87.5°	12.6	13.6	11.5	8.4	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)