

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: P259503

Luminaire Tested: **22CZ-LD5-24-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2252.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

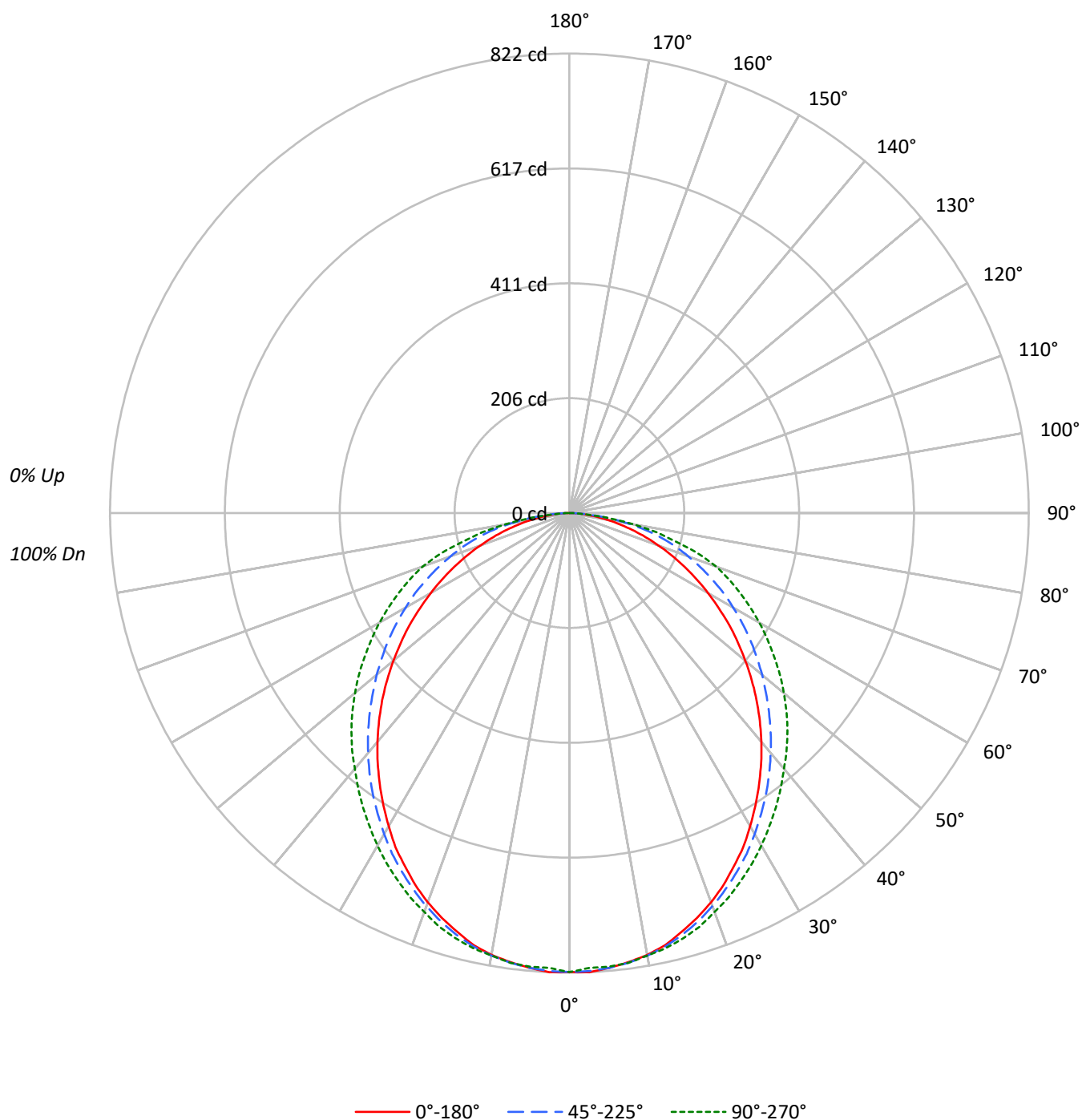
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2209	2209	2209
5°	2206	2206	2200
10°	2193	2196	2196
15°	2161	2176	2194
20°	2122	2143	2174
25°	2068	2104	2155
30°	2010	2060	2134
35°	1944	2015	2114
40°	1877	1968	2098
45°	1803	1922	2100
50°	1721	1884	2097
55°	1639	1852	2096
60°	1542	1822	2113
65°	1447	1798	2142
70°	1336	1779	2196
75°	1203	1765	2036
80°	1055	1643	1777
85°	868	1235	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.4
10°-20°	220.2	9.8
20°-30°	327.1	14.5
30°-40°	385.0	17.1
40°-50°	392.5	17.4
50°-60°	354.0	15.7
60°-70°	278.9	12.4
70°-80°	172.0	7.6
80°-90°	44.7	2.0
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°	624.9	27.7
0°-40°	1009.9	44.8
0°-60°	1756.5	78.0
0°-90°	2252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	817	818	817	816	814	78
15°	776	779	781	785	788	219
25°	697	701	708	720	726	321
35°	592	598	613	633	644	370
45°	474	481	505	535	552	365
55°	349	361	395	430	447	312
65°	227	243	282	318	336	225
75°	116	135	170	189	196	123
85°	28	36	40	38	36	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.0	821.0	821.0	821.0	821.0
2.5°	822.1	822.1	819.9	817.7	814.5
5°	816.7	817.7	816.7	815.6	814.5
7.5°	810.2	811.3	811.3	811.3	811.3
10°	802.6	803.7	803.7	803.7	803.7
12.5°	791.8	792.9	793.9	795.0	797.2
15°	775.6	778.8	781.0	785.3	787.5
17.5°	759.3	762.6	765.8	771.2	775.6
20°	740.9	743.1	748.5	755.0	759.3
22.5°	720.4	723.6	729.0	737.7	744.2
25°	696.6	700.9	708.5	720.4	725.8
27.5°	673.9	677.1	686.9	699.8	707.4
30°	646.8	651.2	663.1	679.3	686.9
32.5°	619.8	625.2	638.2	656.6	665.2
35°	591.7	598.2	613.3	632.8	643.6
37.5°	563.5	570.0	587.3	609.0	620.9
40°	534.3	540.8	560.3	584.1	597.1
42.5°	504.1	511.6	533.3	560.3	575.4
45°	473.8	481.3	505.1	535.4	551.7
47.5°	442.4	451.1	477.0	510.5	526.8
50°	411.0	420.8	450.0	484.6	500.8
52.5°	379.7	390.5	421.9	457.5	474.9
55°	349.4	361.3	394.8	430.5	446.7
57.5°	316.9	331.0	366.7	401.3	419.7
60°	286.6	301.8	338.6	373.2	392.6
62.5°	256.4	272.6	311.5	346.1	364.5
65°	227.2	243.4	282.3	318.0	336.4
67.5°	197.9	216.3	254.2	289.9	308.3
70°	169.8	189.3	226.1	260.7	279.1
72.5°	142.8	162.3	199.0	231.5	242.3
75°	115.7	135.2	169.8	189.3	195.8
77.5°	90.9	109.2	139.5	151.4	160.1
80°	68.1	84.4	106.0	113.6	114.7
82.5°	46.5	60.6	73.6	74.6	73.6
85°	28.1	35.7	40.0	37.9	35.7
87.5°	13.0	14.1	13.0	8.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)