

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: P259335

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259335
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-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: 2208.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

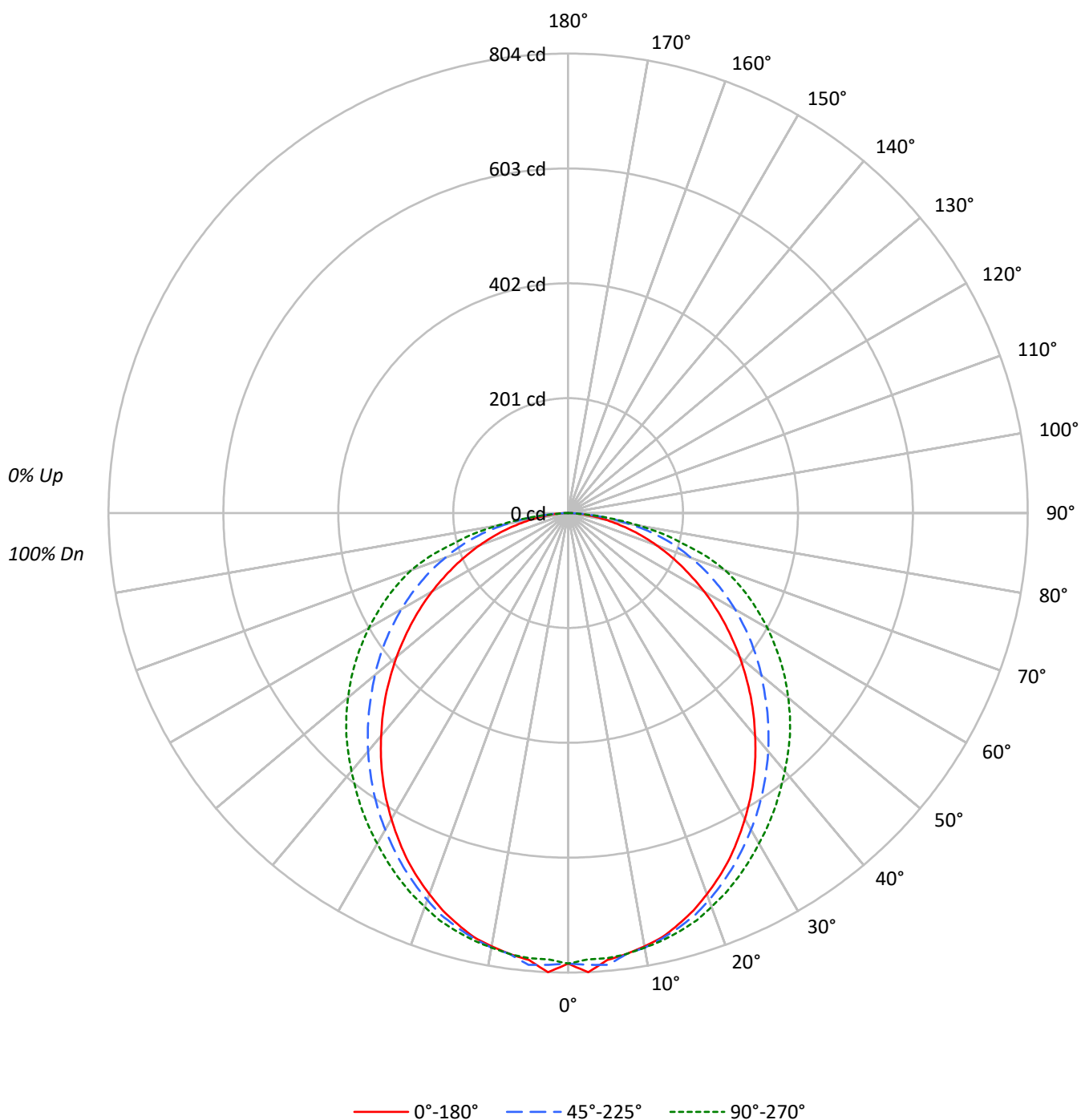
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2121	2121	2121
5°	2120	2143	2112
10°	2104	2109	2109
15°	2076	2091	2109
20°	2032	2063	2100
25°	1983	2028	2088
30°	1922	1988	2075
35°	1859	1951	2071
40°	1788	1912	2071
45°	1716	1875	2088
50°	1641	1847	2104
55°	1562	1829	2131
60°	1480	1814	2167
65°	1388	1805	2222
70°	1293	1799	2298
75°	1172	1798	2177
80°	1015	1664	1931
85°	861	1260	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.4
10°-20°	211.7	9.6
20°-30°	315.0	14.3
30°-40°	372.5	16.9
40°-50°	382.9	17.3
50°-60°	349.9	15.8
60°-70°	279.9	12.7
70°-80°	175.7	8.0
80°-90°	45.8	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°	601.5	27.2
0°-40°	974.0	44.1
0°-60°	1706.7	77.3
0°-90°	2208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	785	785	794	788	782	75
15°	745	746	750	755	757	210
25°	668	672	683	695	703	307
35°	566	573	594	616	630	354
45°	451	463	493	529	549	348
55°	333	349	390	433	454	298
65°	218	237	284	326	349	216
75°	113	134	173	199	209	120
85°	28	35	41	40	40	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.1	788.1	788.1	788.1	788.1
2.5°	804.2	801.0	791.3	784.9	781.7
5°	784.9	784.9	793.5	788.1	781.7
7.5°	778.4	778.4	778.4	794.6	778.4
10°	769.9	770.9	772.0	778.4	772.0
12.5°	760.2	760.2	762.3	764.5	765.6
15°	745.2	746.2	750.5	754.8	757.0
17.5°	729.1	732.3	737.6	743.0	747.3
20°	709.7	714.0	720.5	729.1	733.3
22.5°	689.3	693.6	702.2	711.9	719.4
25°	667.9	672.1	682.9	694.7	703.3
27.5°	643.2	648.5	661.4	677.5	686.1
30°	618.5	624.9	639.9	658.2	667.9
32.5°	592.7	600.2	617.4	637.8	649.6
35°	565.8	573.4	593.8	616.3	630.3
37.5°	537.9	546.5	569.1	594.8	609.9
40°	508.9	518.6	544.4	572.3	589.5
42.5°	480.0	490.7	518.6	551.9	569.1
45°	451.0	462.8	492.8	529.3	548.7
47.5°	420.9	434.9	466.0	506.8	526.1
50°	391.9	405.9	441.3	483.2	502.5
52.5°	361.8	377.9	415.5	458.5	478.9
55°	332.9	349.0	389.8	432.7	454.2
57.5°	303.9	320.0	362.9	406.9	428.4
60°	274.9	292.1	337.1	380.1	402.6
62.5°	245.9	264.1	310.3	354.3	375.8
65°	218.0	237.3	283.5	326.4	349.0
67.5°	191.1	211.5	256.6	298.5	321.0
70°	164.3	184.7	228.7	269.5	292.1
72.5°	138.5	158.9	201.9	238.4	255.5
75°	112.7	134.2	172.9	198.6	209.4
77.5°	88.0	109.5	142.8	160.0	171.8
80°	65.5	83.8	107.4	120.3	124.6
82.5°	45.1	60.1	75.2	78.4	80.5
85°	27.9	35.4	40.8	39.7	39.7
87.5°	12.9	14.0	11.8	8.6	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)