

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: P258869

Luminaire Tested: **14CZ-LD5-44-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4175.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

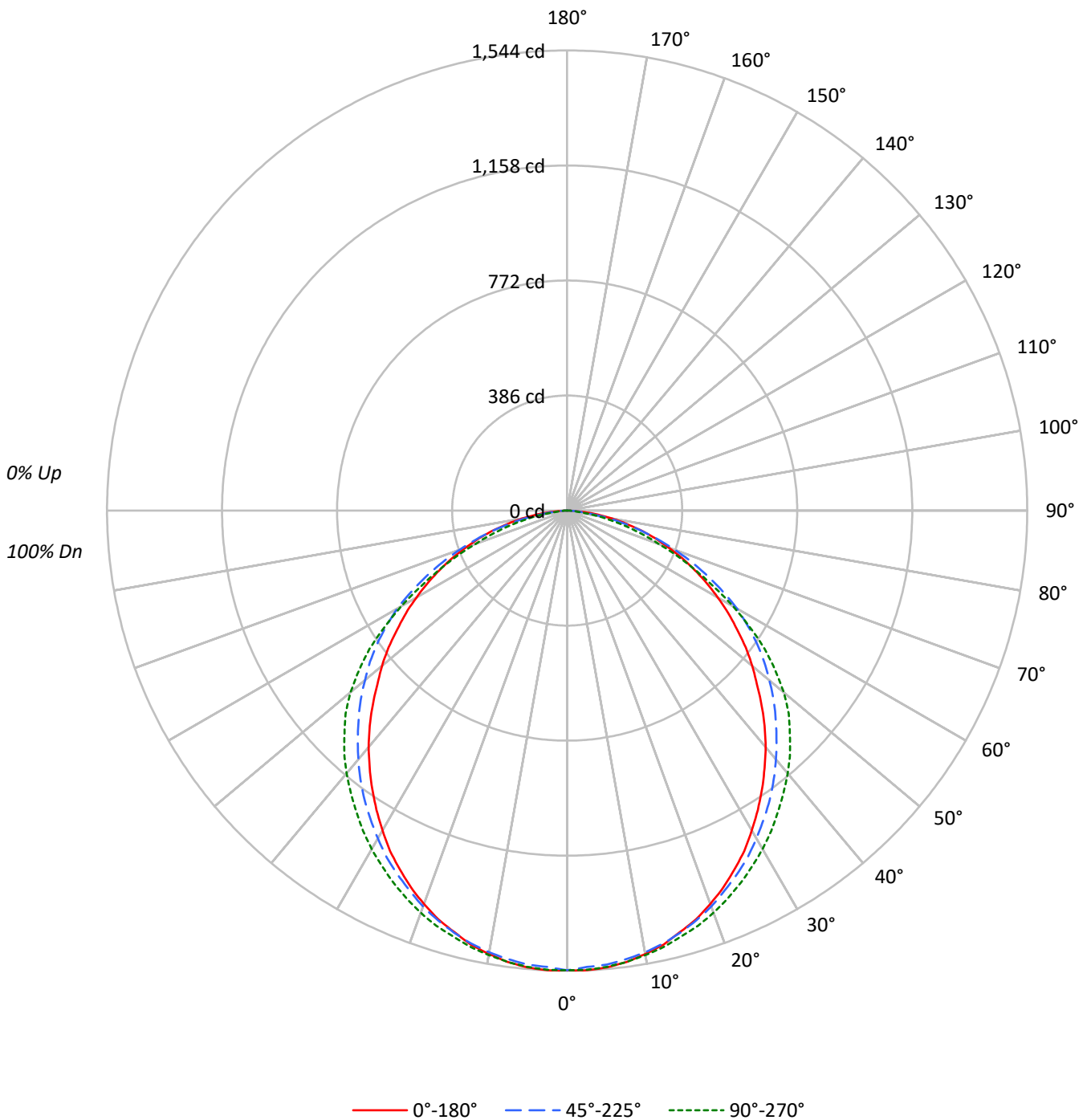
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4150	4150	4150
5°	4156	4131	4151
10°	4128	4112	4138
15°	4079	4084	4120
20°	4022	4049	4113
25°	3944	3999	4093
30°	3850	3948	4076
35°	3746	3893	4052
40°	3640	3830	4045
45°	3511	3766	4021
50°	3396	3707	3972
55°	3264	3648	3797
60°	3144	3545	3464
65°	3009	3317	3044
70°	2840	3015	2576
75°	2650	2611	2127
80°	2335	2018	1557
85°	1837	976	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	3.5
10°-20°	415.2	9.9
20°-30°	623.0	14.9
30°-40°	742.8	17.8
40°-50°	765.1	18.3
50°-60°	681.8	16.3
60°-70°	491.3	11.8
70°-80°	256.9	6.2
80°-90°	53.1	1.3
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°	1183.9	28.4
0°-40°	1926.7	46.1
0°-60°	3373.6	80.8
0°-90°	4175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1538	1535	1529	1538	1537	146
15°	1464	1466	1466	1481	1479	413
25°	1328	1336	1347	1373	1378	612
35°	1140	1155	1185	1224	1233	713
45°	923	943	990	1046	1057	712
55°	696	718	778	813	809	624
65°	472	489	521	497	478	468
75°	255	268	251	218	205	270
85°	60	52	32	28	28	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.2	1542.2	1542.2	1542.2	1542.2
2.5°	1544.1	1540.4	1532.9	1542.2	1542.2
5°	1538.5	1534.8	1529.2	1538.5	1536.7
7.5°	1527.4	1523.6	1518.1	1529.2	1527.4
10°	1510.6	1508.8	1505.0	1516.2	1514.3
12.5°	1492.0	1490.2	1488.3	1499.5	1499.5
15°	1464.1	1466.0	1466.0	1480.9	1479.0
17.5°	1438.1	1439.9	1441.8	1460.4	1460.4
20°	1404.6	1406.4	1413.9	1434.3	1436.2
22.5°	1369.2	1371.1	1380.4	1404.6	1408.3
25°	1328.3	1335.7	1346.9	1373.0	1378.5
27.5°	1287.4	1293.0	1311.6	1341.3	1345.0
30°	1239.0	1250.2	1270.6	1304.1	1311.6
32.5°	1190.6	1203.7	1227.8	1265.1	1274.4
35°	1140.4	1155.3	1185.1	1224.1	1233.4
37.5°	1088.3	1101.3	1138.5	1179.5	1192.5
40°	1036.2	1049.2	1090.2	1136.7	1151.6
42.5°	980.4	999.0	1039.9	1092.0	1106.9
45°	922.7	943.2	989.7	1045.5	1056.7
47.5°	863.2	885.5	939.5	995.3	1008.3
50°	811.1	831.6	885.5	939.5	948.8
52.5°	755.3	773.9	833.4	878.1	880.0
55°	695.8	718.1	777.6	813.0	809.3
57.5°	641.8	660.4	718.1	736.7	725.5
60°	584.2	600.9	658.6	660.4	643.7
62.5°	528.3	545.1	589.7	576.7	556.3
65°	472.5	489.3	520.9	496.7	478.1
67.5°	418.6	433.5	452.1	420.4	401.8
70°	360.9	381.4	383.2	346.0	327.4
72.5°	310.7	321.8	318.1	282.8	266.0
75°	254.9	267.9	251.1	217.7	204.6
77.5°	202.8	212.1	189.8	158.1	148.8
80°	150.7	156.3	130.2	106.0	100.5
82.5°	102.3	102.3	74.4	57.7	52.1
85°	59.5	52.1	31.6	27.9	27.9
87.5°	20.5	13.0	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)