

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: P258802

Luminaire Tested: **14CZ-LD5-39-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258802
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-LD5-39-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3886.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

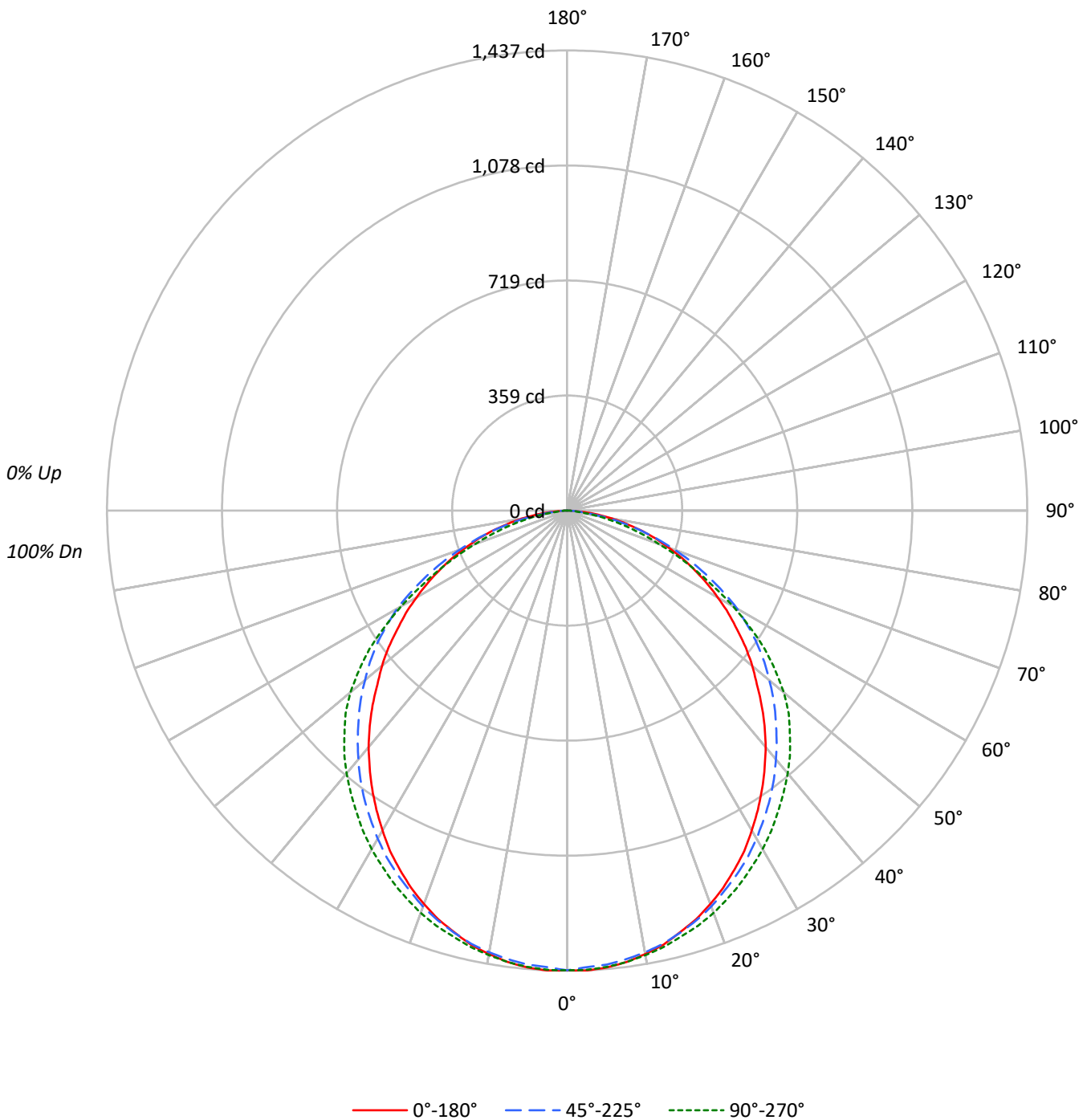
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3863	3863	3863
5°	3868	3845	3864
10°	3842	3828	3851
15°	3797	3801	3835
20°	3744	3769	3828
25°	3671	3722	3810
30°	3583	3675	3793
35°	3487	3623	3771
40°	3388	3564	3765
45°	3269	3506	3743
50°	3161	3450	3697
55°	3038	3396	3534
60°	2926	3299	3224
65°	2800	3087	2833
70°	2643	2806	2398
75°	2466	2431	1981
80°	2174	1878	1449
85°	1711	908	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.5
10°-20°	386.4	9.9
20°-30°	579.9	14.9
30°-40°	691.4	17.8
40°-50°	712.1	18.3
50°-60°	634.6	16.3
60°-70°	457.3	11.8
70°-80°	239.2	6.2
80°-90°	49.5	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°	1102.0	28.4
0°-40°	1793.3	46.1
0°-60°	3140.1	80.8
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1432	1429	1423	1432	1430	136
15°	1363	1364	1364	1378	1377	385
25°	1236	1243	1254	1278	1283	570
35°	1062	1075	1103	1139	1148	664
45°	859	878	921	973	984	663
55°	648	668	724	757	753	581
65°	440	455	485	462	445	436
75°	237	249	234	203	190	251
85°	55	48	29	26	26	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.5	1435.5	1435.5	1435.5	1435.5
2.5°	1437.2	1433.8	1426.8	1435.5	1435.5
5°	1432.0	1428.6	1423.4	1432.0	1430.3
7.5°	1421.6	1418.2	1413.0	1423.4	1421.6
10°	1406.1	1404.3	1400.9	1411.2	1409.5
12.5°	1388.7	1387.0	1385.3	1395.7	1395.7
15°	1362.8	1364.5	1364.5	1378.3	1376.6
17.5°	1338.5	1340.3	1342.0	1359.3	1359.3
20°	1307.4	1309.1	1316.0	1335.1	1336.8
22.5°	1274.5	1276.2	1284.8	1307.4	1310.8
25°	1236.4	1243.3	1253.7	1277.9	1283.1
27.5°	1198.3	1203.5	1220.8	1248.5	1251.9
30°	1153.2	1163.6	1182.7	1213.8	1220.8
32.5°	1108.2	1120.3	1142.9	1177.5	1186.1
35°	1061.5	1075.3	1103.0	1139.4	1148.0
37.5°	1013.0	1025.1	1059.7	1097.8	1110.0
40°	964.5	976.6	1014.7	1058.0	1071.9
42.5°	912.5	929.9	968.0	1016.4	1030.3
45°	858.9	877.9	921.2	973.2	983.5
47.5°	803.5	824.2	874.5	926.4	938.5
50°	755.0	774.0	824.2	874.5	883.1
52.5°	703.0	720.3	775.8	817.3	819.0
55°	647.6	668.4	723.8	756.7	753.2
57.5°	597.4	614.7	668.4	685.7	675.3
60°	543.7	559.3	613.0	614.7	599.1
62.5°	491.8	507.4	548.9	536.8	517.7
65°	439.8	455.4	484.8	462.3	445.0
67.5°	389.6	403.5	420.8	391.3	374.0
70°	335.9	355.0	356.7	322.1	304.8
72.5°	289.2	299.6	296.1	263.2	247.6
75°	237.2	249.3	233.8	202.6	190.5
77.5°	188.7	197.4	176.6	147.2	138.5
80°	140.3	145.5	121.2	98.7	93.5
82.5°	95.2	95.2	69.3	53.7	48.5
85°	55.4	48.5	29.4	26.0	26.0
87.5°	19.0	12.1	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)