

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: P258803

Luminaire Tested: **14CZ-LD5-39-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258803
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3972.0 lumens
Efficiency: N/A
Efficacy: 126.7 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

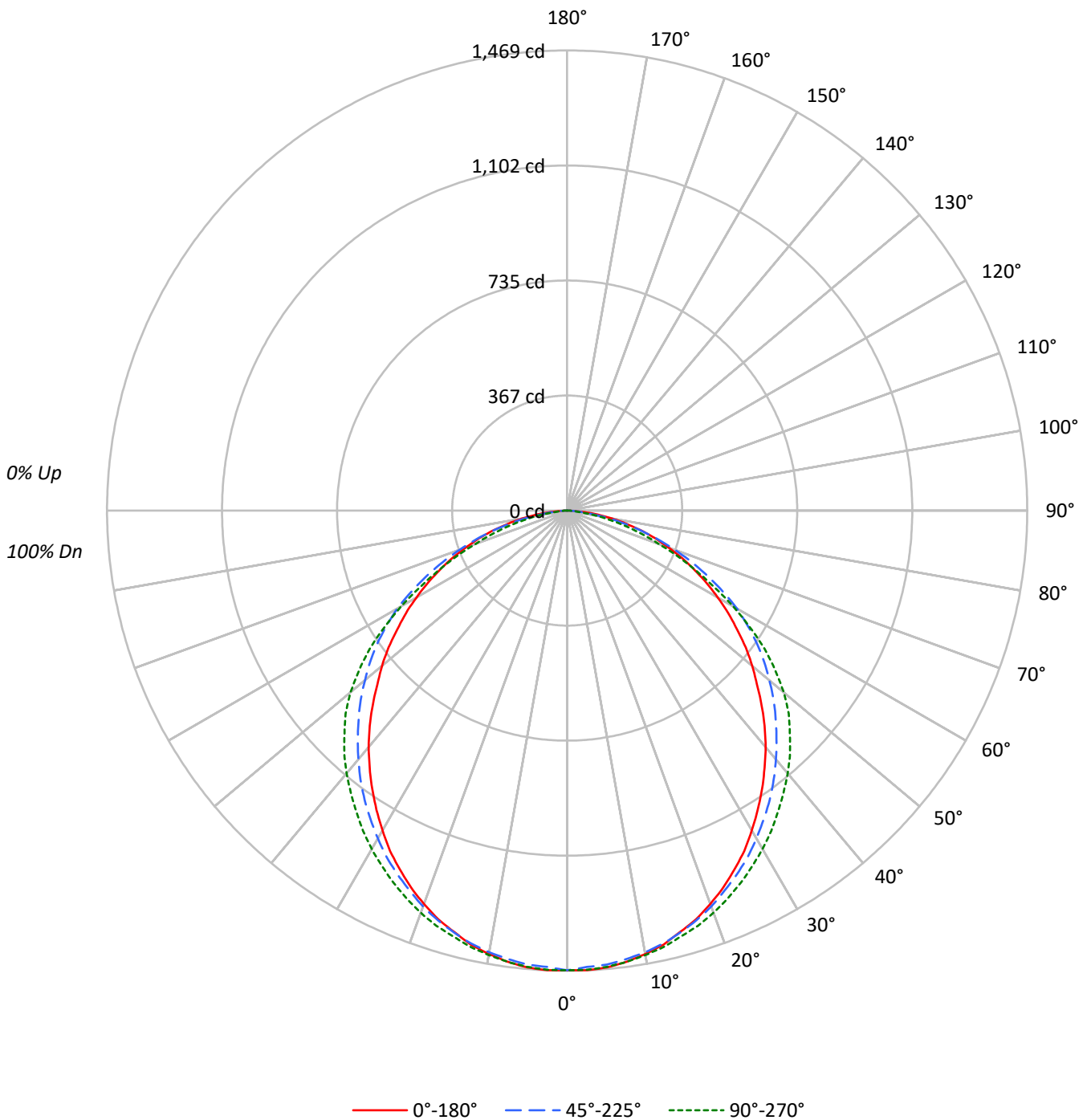
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3948	3948	3948
5°	3954	3930	3949
10°	3927	3913	3937
15°	3880	3886	3920
20°	3827	3852	3913
25°	3752	3805	3894
30°	3663	3756	3877
35°	3564	3704	3855
40°	3463	3644	3849
45°	3341	3583	3826
50°	3231	3527	3779
55°	3105	3471	3612
60°	2991	3372	3296
65°	2863	3156	2897
70°	2702	2869	2451
75°	2521	2484	2024
80°	2222	1920	1481
85°	1748	929	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.5
10°-20°	395.0	9.9
20°-30°	592.7	14.9
30°-40°	706.7	17.8
40°-50°	727.9	18.3
50°-60°	648.7	16.3
60°-70°	467.4	11.8
70°-80°	244.5	6.2
80°-90°	50.6	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°	1126.4	28.4
0°-40°	1833.0	46.1
0°-60°	3209.6	80.8
0°-90°	3972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1464	1460	1455	1464	1462	139
15°	1393	1395	1395	1409	1407	393
25°	1264	1271	1281	1306	1312	582
35°	1085	1099	1127	1165	1174	679
45°	878	897	942	995	1005	677
55°	662	683	740	774	770	594
65°	450	466	496	473	455	445
75°	242	255	239	207	195	257
85°	57	50	30	26	26	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.3	1467.3	1467.3	1467.3	1467.3
2.5°	1469.0	1465.5	1458.4	1467.3	1467.3
5°	1463.7	1460.2	1454.9	1463.7	1461.9
7.5°	1453.1	1449.6	1444.2	1454.9	1453.1
10°	1437.2	1435.4	1431.9	1442.5	1440.7
12.5°	1419.5	1417.7	1415.9	1426.6	1426.6
15°	1392.9	1394.7	1394.7	1408.9	1407.1
17.5°	1368.1	1369.9	1371.7	1389.4	1389.4
20°	1336.3	1338.1	1345.1	1364.6	1366.4
22.5°	1302.7	1304.4	1313.3	1336.3	1339.8
25°	1263.7	1270.8	1281.4	1306.2	1311.5
27.5°	1224.8	1230.1	1247.8	1276.1	1279.6
30°	1178.8	1189.4	1208.9	1240.7	1247.8
32.5°	1132.7	1145.1	1168.1	1203.5	1212.4
35°	1085.0	1099.1	1127.4	1164.6	1173.5
37.5°	1035.4	1047.8	1083.2	1122.1	1134.5
40°	985.8	998.2	1037.2	1081.4	1095.6
42.5°	932.7	950.4	989.4	1038.9	1053.1
45°	877.9	897.3	941.6	994.7	1005.3
47.5°	821.2	842.5	893.8	946.9	959.3
50°	771.7	791.2	842.5	893.8	902.7
52.5°	718.6	736.3	792.9	835.4	837.2
55°	661.9	683.2	739.8	773.5	769.9
57.5°	610.6	628.3	683.2	700.9	690.3
60°	555.8	571.7	626.5	628.3	612.4
62.5°	502.7	518.6	561.1	548.7	529.2
65°	449.6	465.5	495.6	472.6	454.9
67.5°	398.2	412.4	430.1	400.0	382.3
70°	343.4	362.8	364.6	329.2	311.5
72.5°	295.6	306.2	302.7	269.0	253.1
75°	242.5	254.9	238.9	207.1	194.7
77.5°	192.9	201.8	180.5	150.4	141.6
80°	143.4	148.7	123.9	100.9	95.6
82.5°	97.3	97.3	70.8	54.9	49.6
85°	56.6	49.6	30.1	26.5	26.5
87.5°	19.5	12.4	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)