

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: P258724

Luminaire Tested: **14CZ-LD5-39-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258724
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-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3760.1 lumens
Efficiency: N/A
Efficacy: 121.8 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

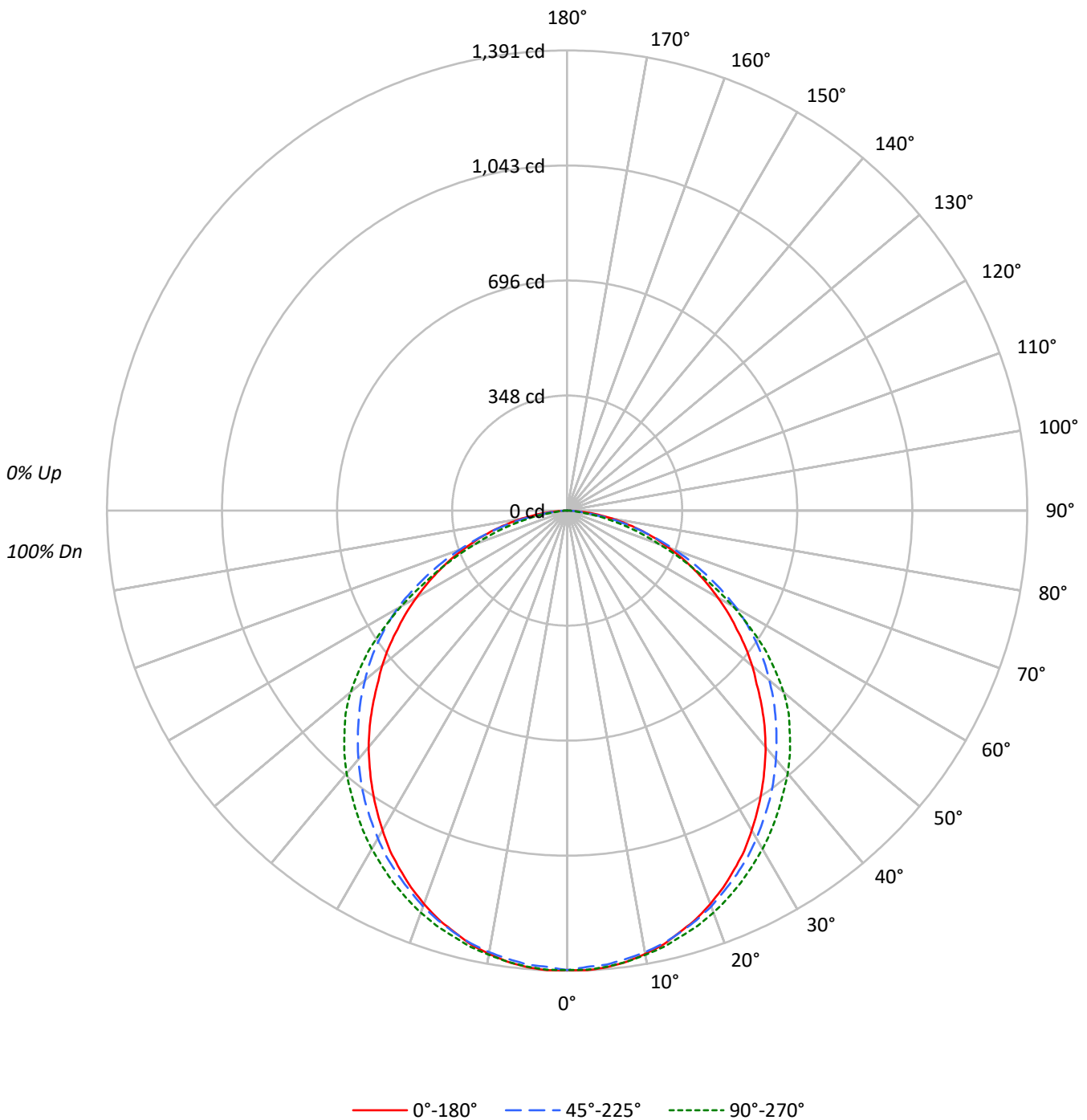
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3738	3738	3738
5°	3743	3720	3739
10°	3718	3704	3727
15°	3673	3678	3711
20°	3623	3647	3704
25°	3552	3602	3687
30°	3467	3556	3670
35°	3374	3506	3649
40°	3279	3449	3643
45°	3163	3392	3622
50°	3058	3339	3577
55°	2940	3286	3420
60°	2831	3192	3120
65°	2710	2987	2742
70°	2558	2716	2320
75°	2386	2352	1916
80°	2103	1818	1402
85°	1655	880	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.5
10°-20°	373.9	9.9
20°-30°	561.1	14.9
30°-40°	669.0	17.8
40°-50°	689.1	18.3
50°-60°	614.1	16.3
60°-70°	442.5	11.8
70°-80°	231.4	6.2
80°-90°	47.8	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°	1066.3	28.4
0°-40°	1735.3	46.1
0°-60°	3038.4	80.8
0°-90°	3760.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1386	1382	1377	1386	1384	131
15°	1319	1320	1320	1334	1332	372
25°	1196	1203	1213	1236	1242	551
35°	1027	1040	1067	1102	1111	642
45°	831	850	891	942	952	641
55°	627	647	700	732	729	562
65°	426	441	469	447	431	422
75°	230	241	226	196	184	243
85°	54	47	28	25	25	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.0	1389.0	1389.0	1389.0	1389.0
2.5°	1390.7	1387.3	1380.6	1389.0	1389.0
5°	1385.7	1382.3	1377.3	1385.7	1384.0
7.5°	1375.6	1372.3	1367.2	1377.3	1375.6
10°	1360.5	1358.9	1355.5	1365.6	1363.9
12.5°	1343.8	1342.1	1340.4	1350.5	1350.5
15°	1318.6	1320.3	1320.3	1333.7	1332.0
17.5°	1295.2	1296.9	1298.5	1315.3	1315.3
20°	1265.0	1266.7	1273.4	1291.8	1293.5
22.5°	1233.2	1234.9	1243.2	1265.0	1268.4
25°	1196.3	1203.0	1213.1	1236.5	1241.6
27.5°	1159.5	1164.5	1181.2	1208.1	1211.4
30°	1115.9	1126.0	1144.4	1174.5	1181.2
32.5°	1072.3	1084.1	1105.8	1139.4	1147.7
35°	1027.1	1040.5	1067.3	1102.5	1110.9
37.5°	980.2	991.9	1025.4	1062.3	1074.0
40°	933.3	945.0	981.9	1023.7	1037.1
42.5°	883.0	899.8	936.6	983.5	996.9
45°	831.1	849.5	891.4	941.6	951.7
47.5°	777.4	797.5	846.1	896.4	908.1
50°	730.5	749.0	797.5	846.1	854.5
52.5°	680.3	697.0	750.6	790.8	792.5
55°	626.6	646.8	700.4	732.2	728.9
57.5°	578.1	594.8	646.8	663.5	653.5
60°	526.1	541.2	593.1	594.8	579.7
62.5°	475.8	490.9	531.1	519.4	501.0
65°	425.6	440.7	469.1	447.4	430.6
67.5°	377.0	390.4	407.2	378.7	361.9
70°	325.1	343.5	345.2	311.6	294.9
72.5°	279.8	289.9	286.5	254.7	239.6
75°	229.5	241.3	226.2	196.0	184.3
77.5°	182.6	191.0	170.9	142.4	134.0
80°	135.7	140.7	117.3	95.5	90.5
82.5°	92.2	92.2	67.0	51.9	46.9
85°	53.6	46.9	28.5	25.1	25.1
87.5°	18.4	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)