

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: P258720

Luminaire Tested: **14CZ-LD5-35-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258720
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-LD5-35-S-UNV-L83050-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: 3605.7 lumens
Efficiency: N/A
Efficacy: 131.4 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

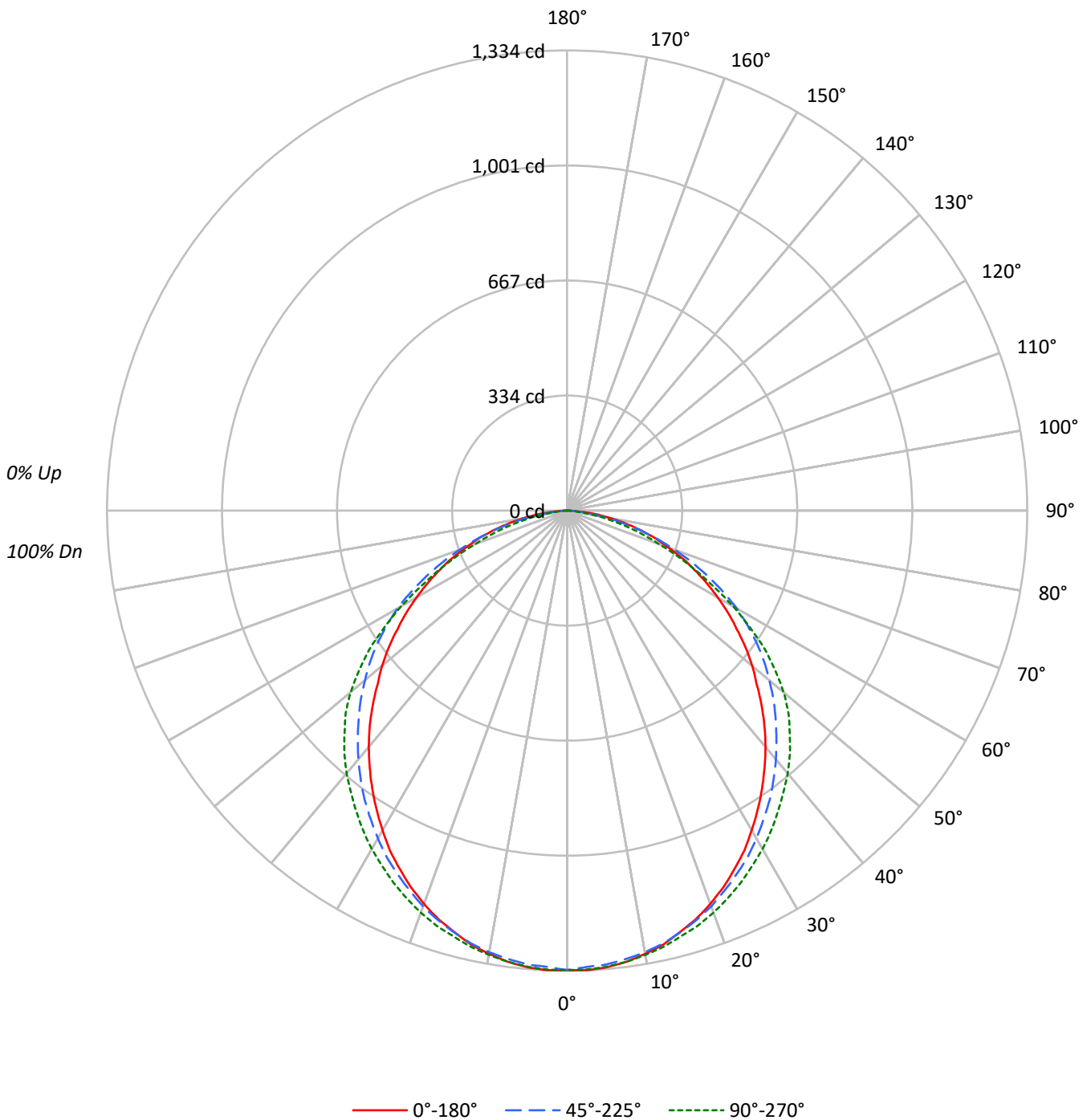
Input Watts (W): 27.435
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3584	3584	3584
5°	3589	3568	3585
10°	3565	3552	3574
15°	3523	3527	3558
20°	3474	3497	3552
25°	3406	3454	3535
30°	3325	3410	3520
35°	3235	3362	3499
40°	3144	3307	3494
45°	3033	3253	3473
50°	2933	3202	3430
55°	2819	3151	3279
60°	2715	3061	2992
65°	2599	2865	2629
70°	2452	2604	2225
75°	2288	2255	1837
80°	2016	1743	1345
85°	1587	843	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.5
10°-20°	358.6	9.9
20°-30°	538.1	14.9
30°-40°	641.5	17.8
40°-50°	660.8	18.3
50°-60°	588.9	16.3
60°-70°	424.3	11.8
70°-80°	221.9	6.2
80°-90°	45.9	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°	1022.5	28.4
0°-40°	1664.0	46.1
0°-60°	2913.6	80.8
0°-90°	3605.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3605.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1329	1326	1321	1329	1327	126
15°	1264	1266	1266	1279	1277	357
25°	1147	1154	1163	1186	1191	528
35°	985	998	1024	1057	1065	616
45°	797	815	855	903	913	615
55°	601	620	672	702	699	539
65°	408	423	450	429	413	404
75°	220	231	217	188	177	233
85°	51	45	27	24	24	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1333.6	1330.3	1323.9	1331.9	1331.9
5°	1328.7	1325.5	1320.7	1328.7	1327.1
7.5°	1319.1	1315.9	1311.1	1320.7	1319.1
10°	1304.6	1303.0	1299.8	1309.5	1307.8
12.5°	1288.6	1287.0	1285.4	1295.0	1295.0
15°	1264.5	1266.1	1266.1	1278.9	1277.3
17.5°	1242.0	1243.6	1245.2	1261.3	1261.3
20°	1213.1	1214.7	1221.1	1238.8	1240.4
22.5°	1182.5	1184.1	1192.2	1213.1	1216.3
25°	1147.2	1153.6	1163.2	1185.7	1190.6
27.5°	1111.8	1116.7	1132.7	1158.4	1161.6
30°	1070.1	1079.7	1097.4	1126.3	1132.7
32.5°	1028.3	1039.5	1060.4	1092.5	1100.6
35°	984.9	997.8	1023.5	1057.2	1065.2
37.5°	939.9	951.2	983.3	1018.6	1029.9
40°	894.9	906.2	941.5	981.7	994.5
42.5°	846.7	862.8	898.1	943.1	956.0
45°	796.9	814.6	854.8	903.0	912.6
47.5°	745.5	764.8	811.4	859.6	870.8
50°	700.5	718.2	764.8	811.4	819.4
52.5°	652.3	668.4	719.8	758.4	760.0
55°	600.9	620.2	671.6	702.1	698.9
57.5°	554.3	570.4	620.2	636.2	626.6
60°	504.5	519.0	568.8	570.4	555.9
62.5°	456.3	470.8	509.3	498.1	480.4
65°	408.1	422.6	449.9	429.0	412.9
67.5°	361.5	374.4	390.4	363.1	347.0
70°	311.7	329.4	331.0	298.8	282.8
72.5°	268.3	278.0	274.7	244.2	229.8
75°	220.1	231.4	216.9	188.0	176.7
77.5°	175.1	183.2	163.9	136.6	128.5
80°	130.1	135.0	112.5	91.6	86.8
82.5°	88.4	88.4	64.3	49.8	45.0
85°	51.4	45.0	27.3	24.1	24.1
87.5°	17.7	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)