

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: P258721

Luminaire Tested: **14CZ-LD5-35-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258721
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-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: 3786.0 lumens
Efficiency: N/A
Efficacy: 134.8 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

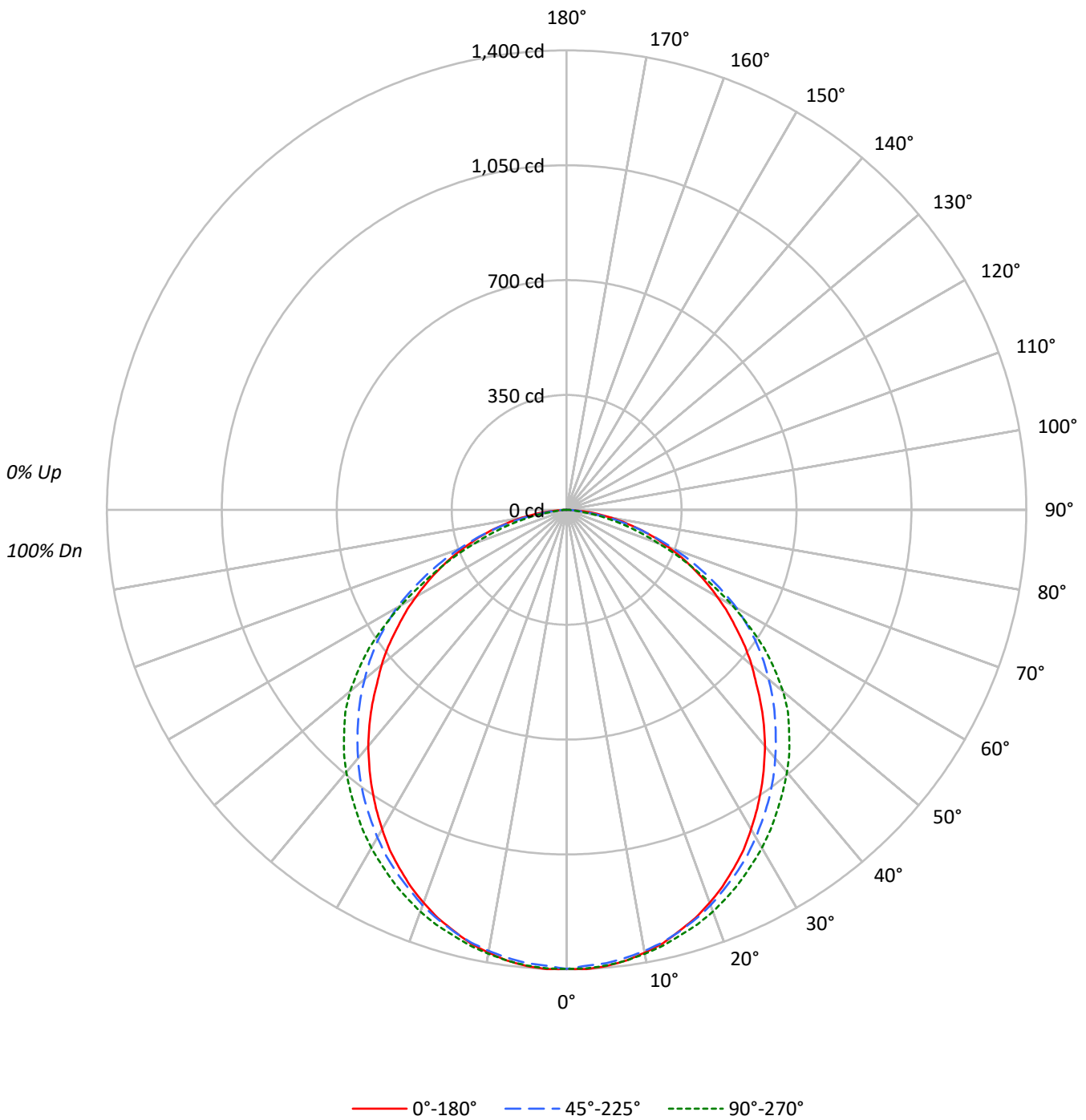
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3763	3763	3763
5°	3769	3746	3764
10°	3743	3729	3752
15°	3699	3704	3736
20°	3647	3672	3730
25°	3576	3627	3712
30°	3491	3580	3696
35°	3397	3530	3674
40°	3301	3473	3668
45°	3185	3416	3647
50°	3079	3362	3602
55°	2960	3309	3443
60°	2851	3214	3141
65°	2728	3008	2761
70°	2575	2734	2336
75°	2403	2367	1930
80°	2117	1830	1412
85°	1667	886	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	3.5
10°-20°	376.5	9.9
20°-30°	565.0	14.9
30°-40°	673.6	17.8
40°-50°	693.8	18.3
50°-60°	618.3	16.3
60°-70°	445.5	11.8
70°-80°	233.0	6.2
80°-90°	48.2	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°	1073.6	28.4
0°-40°	1747.2	46.1
0°-60°	3059.3	80.8
0°-90°	3786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1395	1392	1387	1395	1394	132
15°	1328	1329	1329	1343	1341	375
25°	1204	1211	1221	1245	1250	555
35°	1034	1048	1075	1110	1118	647
45°	837	855	898	948	958	646
55°	631	651	705	737	734	566
65°	428	444	472	450	434	424
75°	231	243	228	197	186	245
85°	54	47	29	25	25	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1398.5	1398.5	1398.5	1398.5	1398.5
2.5°	1400.2	1396.9	1390.1	1398.5	1398.5
5°	1395.2	1391.8	1386.7	1395.2	1393.5
7.5°	1385.0	1381.7	1376.6	1386.7	1385.0
10°	1369.9	1368.2	1364.8	1374.9	1373.2
12.5°	1353.0	1351.3	1349.6	1359.7	1359.7
15°	1327.7	1329.4	1329.4	1342.9	1341.2
17.5°	1304.1	1305.8	1307.4	1324.3	1324.3
20°	1273.7	1275.4	1282.1	1300.7	1302.4
22.5°	1241.7	1243.3	1251.8	1273.7	1277.1
25°	1204.5	1211.3	1221.4	1245.0	1250.1
27.5°	1167.4	1172.5	1189.4	1216.3	1219.7
30°	1123.6	1133.7	1152.2	1182.6	1189.4
32.5°	1079.7	1091.5	1113.4	1147.2	1155.6
35°	1034.1	1047.6	1074.6	1110.1	1118.5
37.5°	986.9	998.7	1032.5	1069.6	1081.4
40°	939.7	951.5	988.6	1030.8	1044.3
42.5°	889.1	905.9	943.0	990.3	1003.8
45°	836.8	855.3	897.5	948.1	958.2
47.5°	782.8	803.0	851.9	902.6	914.4
50°	735.5	754.1	803.0	851.9	860.4
52.5°	684.9	701.8	755.8	796.3	798.0
55°	630.9	651.2	705.2	737.2	733.9
57.5°	582.0	598.9	651.2	668.1	657.9
60°	529.7	544.9	597.2	598.9	583.7
62.5°	479.1	494.3	534.8	523.0	504.4
65°	428.5	443.7	472.4	450.4	433.6
67.5°	379.6	393.1	409.9	381.3	364.4
70°	327.3	345.8	347.5	313.8	296.9
72.5°	281.7	291.9	288.5	256.4	241.2
75°	231.1	242.9	227.7	197.4	185.6
77.5°	183.9	192.3	172.1	143.4	135.0
80°	136.6	141.7	118.1	96.2	91.1
82.5°	92.8	92.8	67.5	52.3	47.2
85°	54.0	47.2	28.7	25.3	25.3
87.5°	18.6	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)