

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: P258629

Luminaire Tested: **14CZ-LD5-35-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3676.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

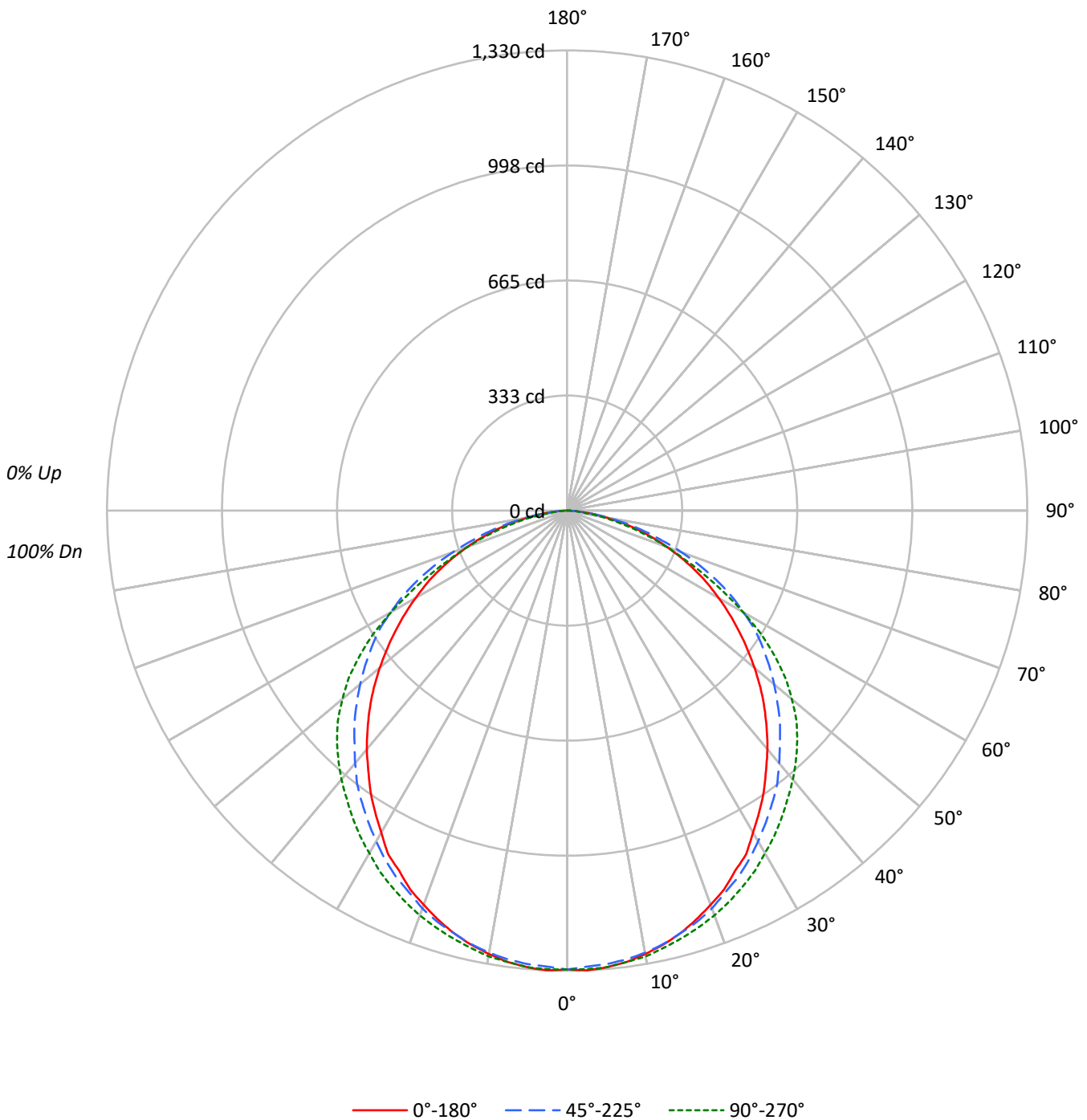
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3570	3570	3570
5°	3579	3554	3579
10°	3556	3546	3575
15°	3524	3524	3564
20°	3472	3503	3565
25°	3412	3471	3562
30°	3339	3429	3553
35°	3256	3393	3554
40°	3164	3348	3565
45°	3069	3311	3580
50°	2959	3270	3551
55°	2840	3240	3435
60°	2721	3170	3160
65°	2597	3035	2769
70°	2410	2766	2396
75°	2185	2412	1979
80°	1742	1909	1460
85°	1232	1062	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.4
10°-20°	358.6	9.8
20°-30°	540.6	14.7
30°-40°	648.0	17.6
40°-50°	672.5	18.3
50°-60°	606.6	16.5
60°-70°	442.5	12.0
70°-80°	232.2	6.3
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°	1024.7	27.9
0°-40°	1672.8	45.5
0°-60°	2951.9	80.3
0°-90°	3676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1325	1321	1316	1325	1325	126
15°	1265	1265	1265	1279	1279	356
25°	1149	1154	1169	1194	1200	530
35°	991	1002	1033	1071	1082	619
45°	806	823	870	922	941	622
55°	605	627	690	736	732	542
65°	408	431	477	458	435	403
75°	210	239	232	201	190	220
85°	40	49	34	29	27	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1330.2	1326.6	1319.3	1326.6	1326.6
5°	1324.8	1321.1	1315.7	1324.8	1324.8
7.5°	1315.7	1312.1	1308.4	1317.5	1315.7
10°	1301.2	1299.4	1297.6	1308.4	1308.4
12.5°	1284.9	1284.9	1283.1	1295.8	1293.9
15°	1264.9	1264.9	1264.9	1279.4	1279.4
17.5°	1239.6	1243.2	1246.8	1263.1	1263.1
20°	1212.4	1216.0	1223.3	1243.2	1245.0
22.5°	1185.2	1187.0	1194.3	1217.8	1223.3
25°	1149.0	1154.4	1168.9	1194.3	1199.7
27.5°	1120.0	1121.8	1138.1	1167.1	1174.3
30°	1074.7	1087.3	1103.7	1136.3	1143.5
32.5°	1033.0	1043.9	1069.2	1103.7	1114.5
35°	991.3	1002.2	1033.0	1071.0	1081.9
37.5°	944.2	960.5	996.7	1034.8	1047.5
40°	900.7	915.2	953.2	1000.4	1014.9
42.5°	853.6	868.1	909.7	962.3	978.6
45°	806.4	822.8	869.9	922.4	940.6
47.5°	757.5	775.6	824.6	882.6	898.9
50°	706.8	726.7	781.1	840.9	848.1
52.5°	656.0	677.8	735.8	788.3	795.6
55°	605.3	627.0	690.5	735.8	732.1
57.5°	556.4	579.9	645.2	668.7	665.1
60°	505.6	531.0	589.0	599.9	587.2
62.5°	458.5	482.1	536.4	527.4	511.1
65°	407.8	431.3	476.6	458.5	434.9
67.5°	357.0	386.0	415.0	384.2	366.1
70°	306.3	338.9	351.6	320.8	304.5
72.5°	257.3	291.8	288.1	257.3	246.5
75°	210.2	239.2	232.0	201.2	190.3
77.5°	159.5	192.1	175.8	150.4	141.4
80°	112.4	141.4	123.2	101.5	94.2
82.5°	74.3	94.2	76.1	59.8	54.4
85°	39.9	48.9	34.4	29.0	27.2
87.5°	16.3	14.5	12.7	12.7	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)