

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: P258853

Luminaire Tested: **14CZ-LD5-35-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258853
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-L92765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3422.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

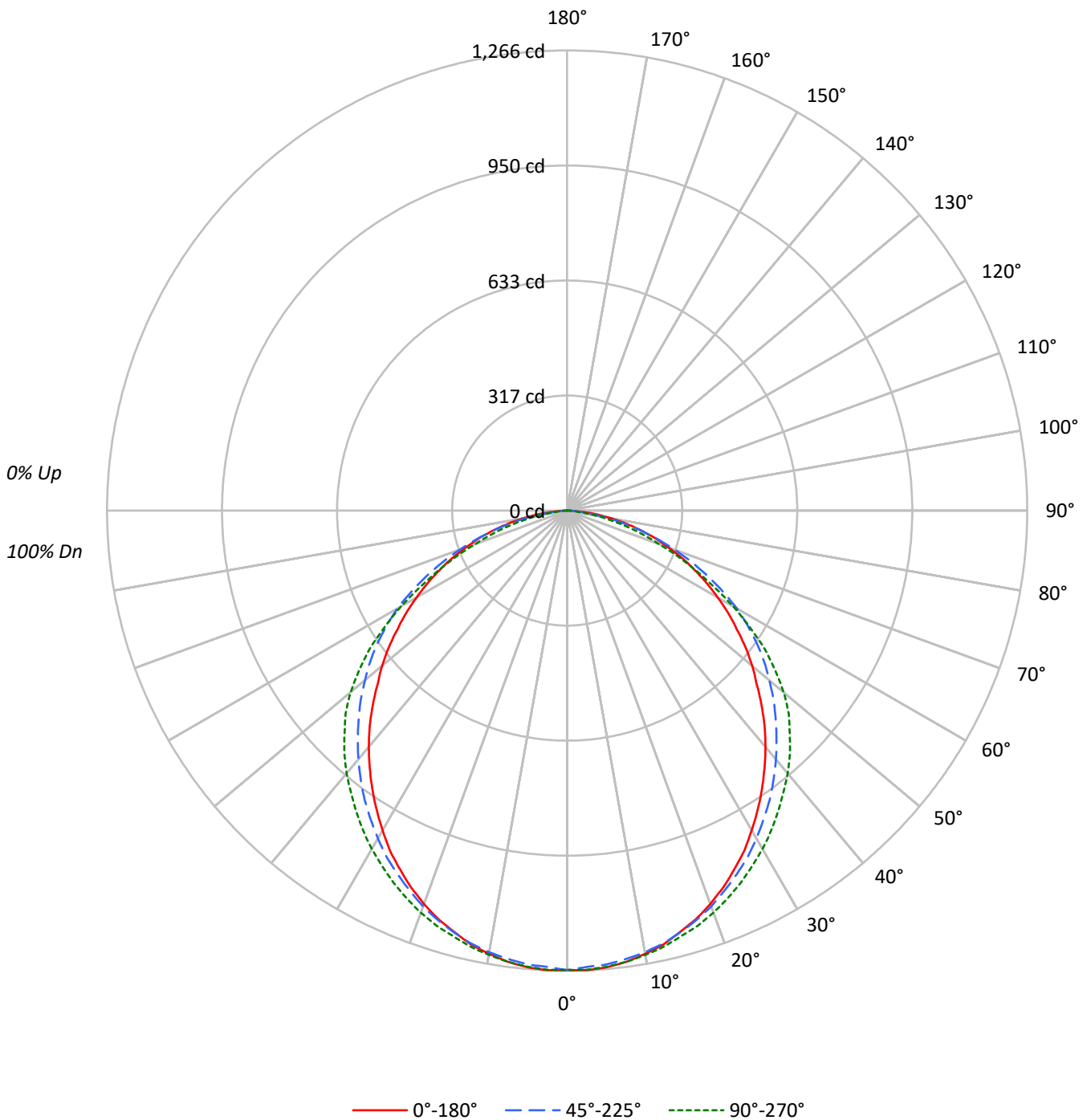
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3402	3402	3402
5°	3406	3386	3402
10°	3383	3371	3392
15°	3343	3348	3377
20°	3297	3319	3371
25°	3233	3278	3355
30°	3155	3236	3340
35°	3071	3191	3321
40°	2983	3139	3316
45°	2878	3087	3296
50°	2783	3039	3256
55°	2676	2990	3112
60°	2577	2905	2840
65°	2466	2719	2495
70°	2327	2471	2112
75°	2172	2141	1744
80°	1914	1654	1275
85°	1507	800	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.5
10°-20°	340.3	9.9
20°-30°	510.7	14.9
30°-40°	608.8	17.8
40°-50°	627.1	18.3
50°-60°	558.9	16.3
60°-70°	402.7	11.8
70°-80°	210.6	6.2
80°-90°	43.6	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°	970.4	28.4
0°-40°	1579.2	46.1
0°-60°	2765.2	80.8
0°-90°	3422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1261	1258	1253	1261	1260	120
15°	1200	1202	1202	1214	1212	339
25°	1089	1095	1104	1125	1130	501
35°	935	947	971	1003	1011	585
45°	756	773	811	857	866	584
55°	570	589	637	666	663	511
65°	387	401	427	407	392	384
75°	209	220	206	178	168	221
85°	49	43	26	23	23	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1265.6	1262.6	1256.5	1264.1	1264.1
5°	1261.0	1258.0	1253.4	1261.0	1259.5
7.5°	1251.9	1248.8	1244.3	1253.4	1251.9
10°	1238.2	1236.6	1233.6	1242.7	1241.2
12.5°	1222.9	1221.4	1219.9	1229.0	1229.0
15°	1200.0	1201.6	1201.6	1213.8	1212.2
17.5°	1178.7	1180.2	1181.7	1197.0	1197.0
20°	1151.3	1152.8	1158.9	1175.6	1177.2
22.5°	1122.3	1123.8	1131.4	1151.3	1154.3
25°	1088.7	1094.8	1104.0	1125.3	1129.9
27.5°	1055.2	1059.8	1075.0	1099.4	1102.5
30°	1015.5	1024.7	1041.5	1068.9	1075.0
32.5°	975.9	986.6	1006.4	1036.9	1044.5
35°	934.7	946.9	971.3	1003.3	1011.0
37.5°	892.0	902.7	933.2	966.7	977.4
40°	849.3	860.0	893.6	931.7	943.9
42.5°	803.6	818.8	852.4	895.1	907.3
45°	756.3	773.1	811.2	857.0	866.1
47.5°	707.5	725.8	770.0	815.8	826.5
50°	664.8	681.6	725.8	770.0	777.7
52.5°	619.1	634.3	683.1	719.7	721.2
55°	570.3	588.6	637.4	666.4	663.3
57.5°	526.1	541.3	588.6	603.8	594.7
60°	478.8	492.5	539.8	541.3	527.6
62.5°	433.1	446.8	483.4	472.7	455.9
65°	387.3	401.0	427.0	407.1	391.9
67.5°	343.1	355.3	370.5	344.6	329.4
70°	295.8	312.6	314.1	283.6	268.4
72.5°	254.6	263.8	260.7	231.8	218.1
75°	208.9	219.6	205.9	178.4	167.7
77.5°	166.2	173.8	155.5	129.6	122.0
80°	123.5	128.1	106.7	86.9	82.3
82.5°	83.9	83.9	61.0	47.3	42.7
85°	48.8	42.7	25.9	22.9	22.9
87.5°	16.8	10.7	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)