

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: P258798

Luminaire Tested: **14CZ-LD5-35-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258798
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-L82765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3759.1 lumens
Efficiency: N/A
Efficacy: 133.4 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

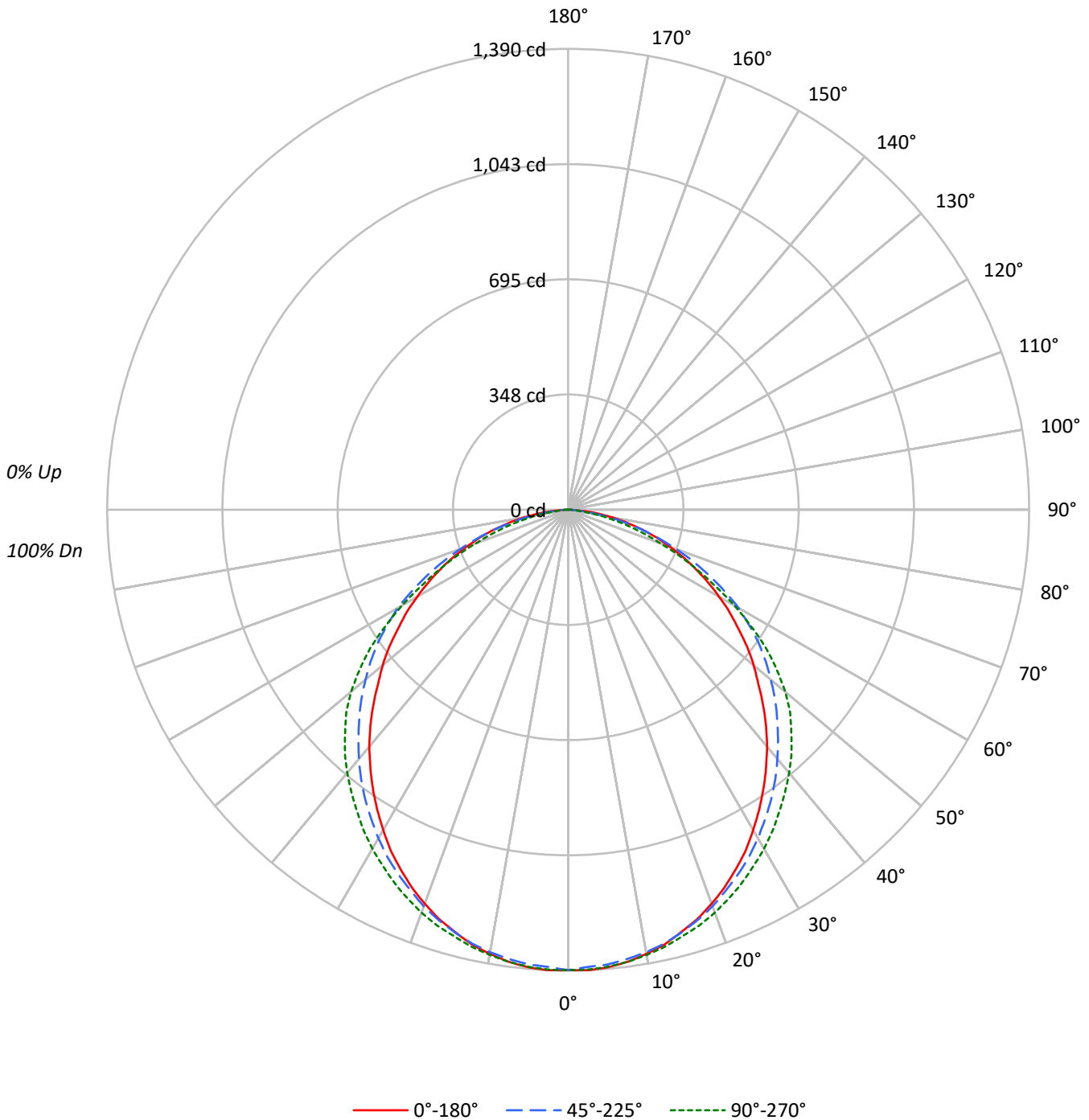
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258798

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P258798

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L82765-W2A1-U-5700K

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°	3737	3737	3737
5°	3742	3719	3737
10°	3716	3703	3726
15°	3672	3677	3710
20°	3621	3645	3703
25°	3551	3601	3685
30°	3466	3555	3669
35°	3373	3505	3648
40°	3277	3448	3642
45°	3162	3391	3621
50°	3057	3338	3576
55°	2939	3285	3418
60°	2831	3192	3119
65°	2709	2986	2741
70°	2557	2715	2319
75°	2386	2351	1916
80°	2103	1818	1402
85°	1655	880	775



TEST NUMBER: P258798

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.5
10°-20°	373.8	9.9
20°-30°	561.0	14.9
30°-40°	668.8	17.8
40°-50°	688.9	18.3
50°-60°	613.9	16.3
60°-70°	442.4	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°	1066.0	28.4
0°-40°	1734.7	46.1
0°-60°	3037.5	80.8
0°-90°	3759.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1385	1382	1377	1385	1384	131
15°	1318	1320	1320	1333	1332	372
25°	1196	1203	1213	1236	1241	551
35°	1027	1040	1067	1102	1110	642
45°	831	849	891	941	951	641
55°	626	647	700	732	729	562
65°	426	440	469	447	430	421
75°	230	241	226	196	184	243
85°	54	47	28	25	25	63
90°	0	0	0	0	0	



TEST NUMBER: P258798

CATALOG NUMBER: 14CZ-LD5-35-S-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.6	1388.6	1388.6	1388.6	1388.6
2.5°	1390.3	1386.9	1380.2	1388.6	1388.6
5°	1385.2	1381.9	1376.9	1385.2	1383.6
7.5°	1375.2	1371.8	1366.8	1376.9	1375.2
10°	1360.1	1358.4	1355.1	1365.1	1363.5
12.5°	1343.4	1341.7	1340.0	1350.1	1350.1
15°	1318.2	1319.9	1319.9	1333.3	1331.6
17.5°	1294.8	1296.5	1298.1	1314.9	1314.9
20°	1264.6	1266.3	1273.0	1291.4	1293.1
22.5°	1232.8	1234.5	1242.9	1264.6	1268.0
25°	1196.0	1202.7	1212.7	1236.2	1241.2
27.5°	1159.1	1164.1	1180.9	1207.7	1211.0
30°	1115.6	1125.6	1144.0	1174.2	1180.9
32.5°	1072.0	1083.7	1105.5	1139.0	1147.4
35°	1026.8	1040.2	1067.0	1102.2	1110.5
37.5°	979.9	991.6	1025.1	1062.0	1073.7
40°	933.0	944.7	981.6	1023.4	1036.8
42.5°	882.7	899.5	936.3	983.2	996.6
45°	830.8	849.2	891.1	941.4	951.4
47.5°	777.2	797.3	845.9	896.1	907.9
50°	730.3	748.7	797.3	845.9	854.3
52.5°	680.1	696.8	750.4	790.6	792.3
55°	626.5	646.6	700.2	732.0	728.6
57.5°	577.9	594.6	646.6	663.3	653.3
60°	526.0	541.0	593.0	594.6	579.6
62.5°	475.7	490.8	531.0	519.3	500.8
65°	425.5	440.5	469.0	447.2	430.5
67.5°	376.9	390.3	407.0	378.6	361.8
70°	325.0	343.4	345.1	311.6	294.8
72.5°	279.7	289.8	286.4	254.6	239.5
75°	229.5	241.2	226.1	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°	92.1	92.1	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)