

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: P258628

Luminaire Tested: **14CZ-LD5-35-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258628
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3640.0 lumens
Efficiency: N/A
Efficacy: 129.6 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

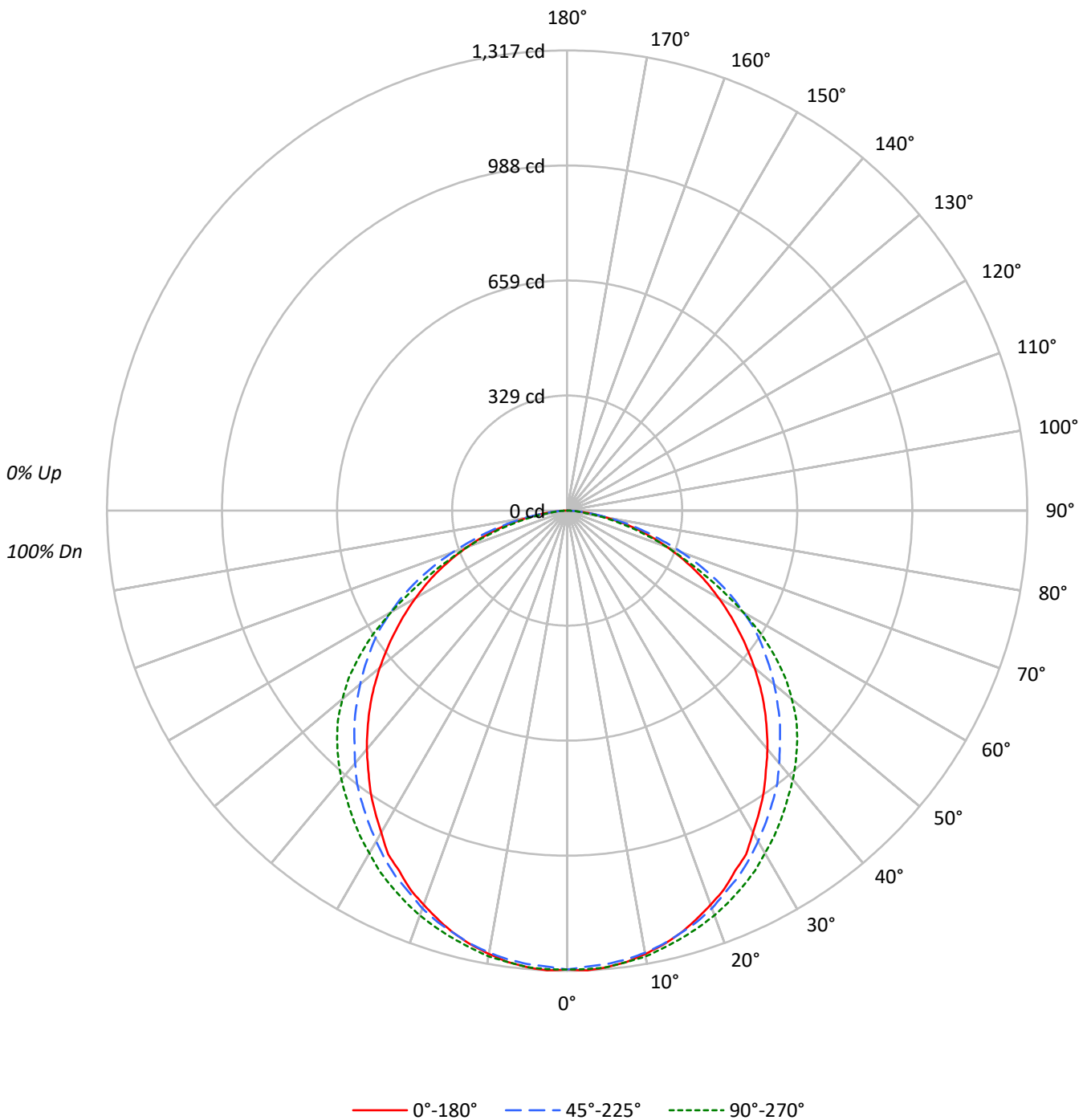
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3535	3535	3535
5°	3544	3519	3544
10°	3521	3511	3540
15°	3490	3490	3529
20°	3438	3469	3530
25°	3378	3437	3527
30°	3306	3396	3518
35°	3225	3360	3519
40°	3133	3316	3530
45°	3039	3278	3544
50°	2930	3238	3516
55°	2812	3208	3401
60°	2695	3139	3129
65°	2571	3005	2742
70°	2386	2739	2372
75°	2165	2388	1959
80°	1725	1891	1446
85°	1220	1053	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.4
10°-20°	355.1	9.8
20°-30°	535.3	14.7
30°-40°	641.7	17.6
40°-50°	665.9	18.3
50°-60°	600.6	16.5
60°-70°	438.1	12.0
70°-80°	229.9	6.3
80°-90°	49.0	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°	1014.7	27.9
0°-40°	1656.4	45.5
0°-60°	2923.0	80.3
0°-90°	3640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1312	1308	1303	1312	1312	124
15°	1253	1253	1253	1267	1267	353
25°	1138	1143	1158	1183	1188	525
35°	982	992	1023	1060	1071	613
45°	799	815	861	913	931	616
55°	599	621	684	729	725	537
65°	404	427	472	454	431	399
75°	208	237	230	199	188	218
85°	40	48	34	29	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1313.6	1313.6	1313.6	1313.6	1313.6
2.5°	1317.2	1313.6	1306.4	1313.6	1313.6
5°	1311.8	1308.2	1302.8	1311.8	1311.8
7.5°	1302.8	1299.2	1295.6	1304.6	1302.8
10°	1288.5	1286.7	1284.9	1295.6	1295.6
12.5°	1272.3	1272.3	1270.5	1283.1	1281.3
15°	1252.6	1252.6	1252.6	1266.9	1266.9
17.5°	1227.4	1231.0	1234.6	1250.8	1250.8
20°	1200.5	1204.1	1211.3	1231.0	1232.8
22.5°	1173.6	1175.4	1182.6	1205.9	1211.3
25°	1137.7	1143.1	1157.5	1182.6	1188.0
27.5°	1109.0	1110.8	1126.9	1155.7	1162.8
30°	1064.1	1076.7	1092.8	1125.2	1132.3
32.5°	1022.9	1033.6	1058.8	1092.8	1103.6
35°	981.6	992.4	1022.9	1060.5	1071.3
37.5°	934.9	951.1	987.0	1024.7	1037.2
40°	891.9	906.2	943.9	990.6	1004.9
42.5°	845.2	859.6	900.8	952.9	969.0
45°	798.6	814.7	861.4	913.4	931.3
47.5°	750.1	768.0	816.5	873.9	890.1
50°	699.9	719.6	773.4	832.6	839.8
52.5°	649.6	671.1	728.6	780.6	787.8
55°	599.4	620.9	683.7	728.6	725.0
57.5°	550.9	574.2	638.8	662.2	658.6
60°	500.7	525.8	583.2	594.0	581.4
62.5°	454.0	477.3	531.2	522.2	506.0
65°	403.8	427.1	472.0	454.0	430.7
67.5°	353.5	382.2	410.9	380.4	362.5
70°	303.3	335.6	348.1	317.6	301.5
72.5°	254.8	288.9	285.3	254.8	244.1
75°	208.2	236.9	229.7	199.2	188.4
77.5°	157.9	190.2	174.1	148.9	140.0
80°	111.3	140.0	122.0	100.5	93.3
82.5°	73.6	93.3	75.4	59.2	53.8
85°	39.5	48.5	34.1	28.7	26.9
87.5°	16.2	14.4	12.6	12.6	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)