

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: P258683

Luminaire Tested: **14CZ-LD5-35-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258683
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-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3318.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

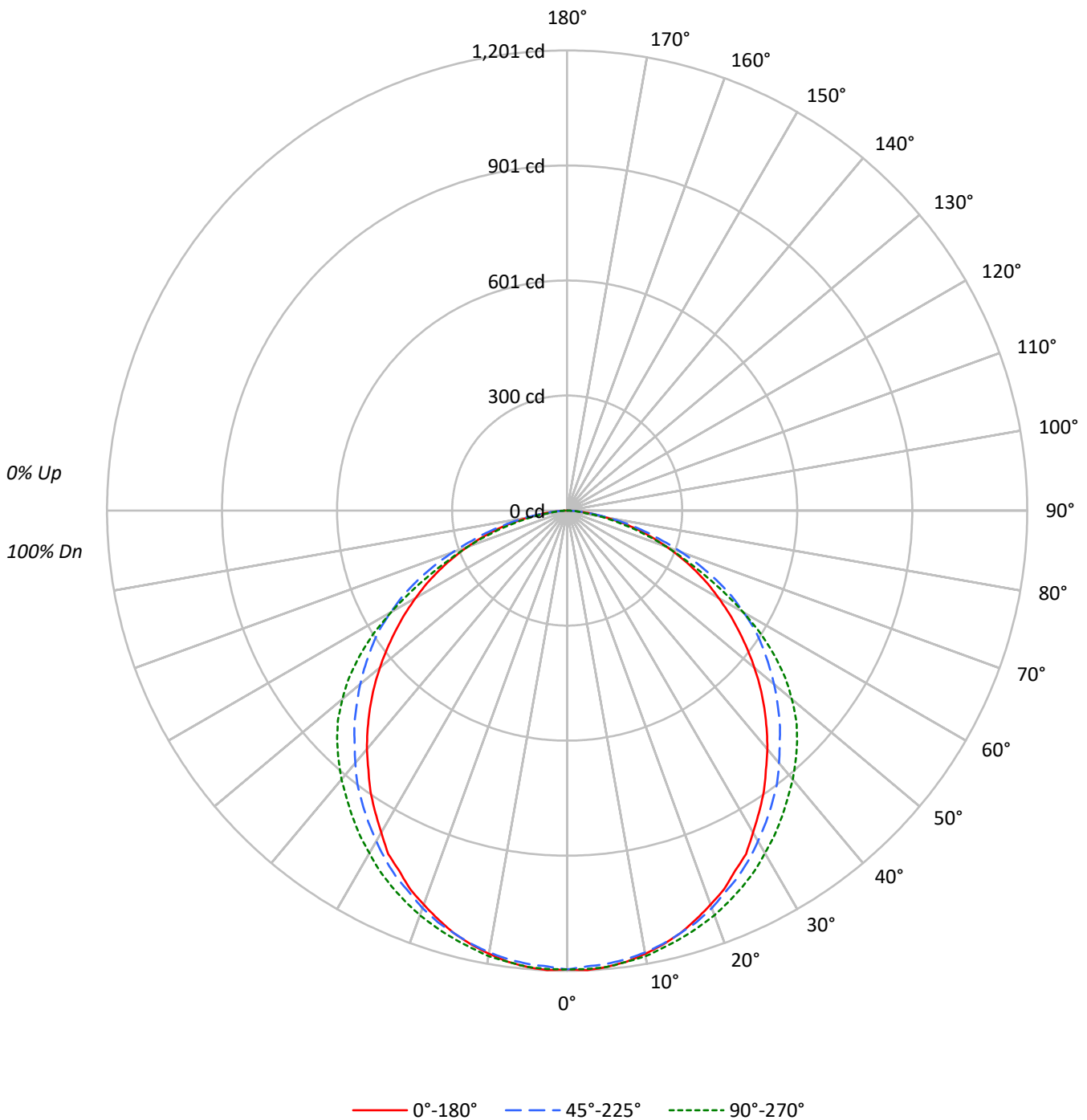
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3222	3222	3222
5°	3230	3208	3230
10°	3209	3200	3227
15°	3181	3181	3217
20°	3134	3162	3218
25°	3079	3133	3215
30°	3014	3095	3207
35°	2939	3063	3208
40°	2856	3022	3218
45°	2770	2988	3231
50°	2671	2951	3205
55°	2563	2924	3100
60°	2456	2861	2852
65°	2343	2739	2500
70°	2175	2496	2162
75°	1972	2177	1786
80°	1571	1723	1319
85°	1112	960	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.4
10°-20°	323.6	9.8
20°-30°	488.0	14.7
30°-40°	584.9	17.6
40°-50°	607.0	18.3
50°-60°	547.5	16.5
60°-70°	399.4	12.0
70°-80°	209.6	6.3
80°-90°	44.7	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°	924.9	27.9
0°-40°	1509.9	45.5
0°-60°	2664.4	80.3
0°-90°	3318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1196	1192	1188	1196	1196	113
15°	1142	1142	1142	1155	1155	322
25°	1037	1042	1055	1078	1083	479
35°	895	905	932	967	976	559
45°	728	743	785	833	849	561
55°	546	566	623	664	661	489
65°	368	389	430	414	393	364
75°	190	216	209	182	172	199
85°	36	44	31	26	24	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1200.6	1197.4	1190.8	1197.4	1197.4
5°	1195.7	1192.5	1187.6	1195.7	1195.7
7.5°	1187.6	1184.3	1181.0	1189.2	1187.6
10°	1174.5	1172.8	1171.2	1181.0	1181.0
12.5°	1159.7	1159.7	1158.1	1169.6	1167.9
15°	1141.8	1141.8	1141.8	1154.8	1154.8
17.5°	1118.9	1122.1	1125.4	1140.1	1140.1
20°	1094.3	1097.6	1104.1	1122.1	1123.8
22.5°	1069.8	1071.4	1078.0	1099.2	1104.1
25°	1037.1	1042.0	1055.1	1078.0	1082.9
27.5°	1010.9	1012.5	1027.3	1053.4	1060.0
30°	970.0	981.5	996.2	1025.6	1032.2
32.5°	932.4	942.2	965.1	996.2	1006.0
35°	894.8	904.6	932.4	966.7	976.5
37.5°	852.2	866.9	899.7	934.0	945.5
40°	813.0	826.1	860.4	902.9	916.0
42.5°	770.4	783.5	821.1	868.6	883.3
45°	727.9	742.6	785.2	832.6	849.0
47.5°	683.7	700.1	744.3	796.6	811.3
50°	637.9	655.9	705.0	759.0	765.5
52.5°	592.1	611.8	664.1	711.6	718.1
55°	546.3	566.0	623.2	664.1	660.8
57.5°	502.2	523.4	582.3	603.6	600.3
60°	456.4	479.3	531.6	541.4	530.0
62.5°	413.8	435.1	484.2	476.0	461.3
65°	368.0	389.3	430.2	413.8	392.6
67.5°	322.2	348.4	374.6	346.8	330.4
70°	276.4	305.9	317.3	289.5	274.8
72.5°	232.3	263.4	260.1	232.3	222.5
75°	189.7	215.9	209.4	181.6	171.8
77.5°	143.9	173.4	158.7	135.8	127.6
80°	101.4	127.6	111.2	91.6	85.1
82.5°	67.1	85.1	68.7	54.0	49.1
85°	36.0	44.2	31.1	26.2	24.5
87.5°	14.7	13.1	11.5	11.5	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)