

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: P275571

Luminaire Tested: **14CZ2-35-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3328.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

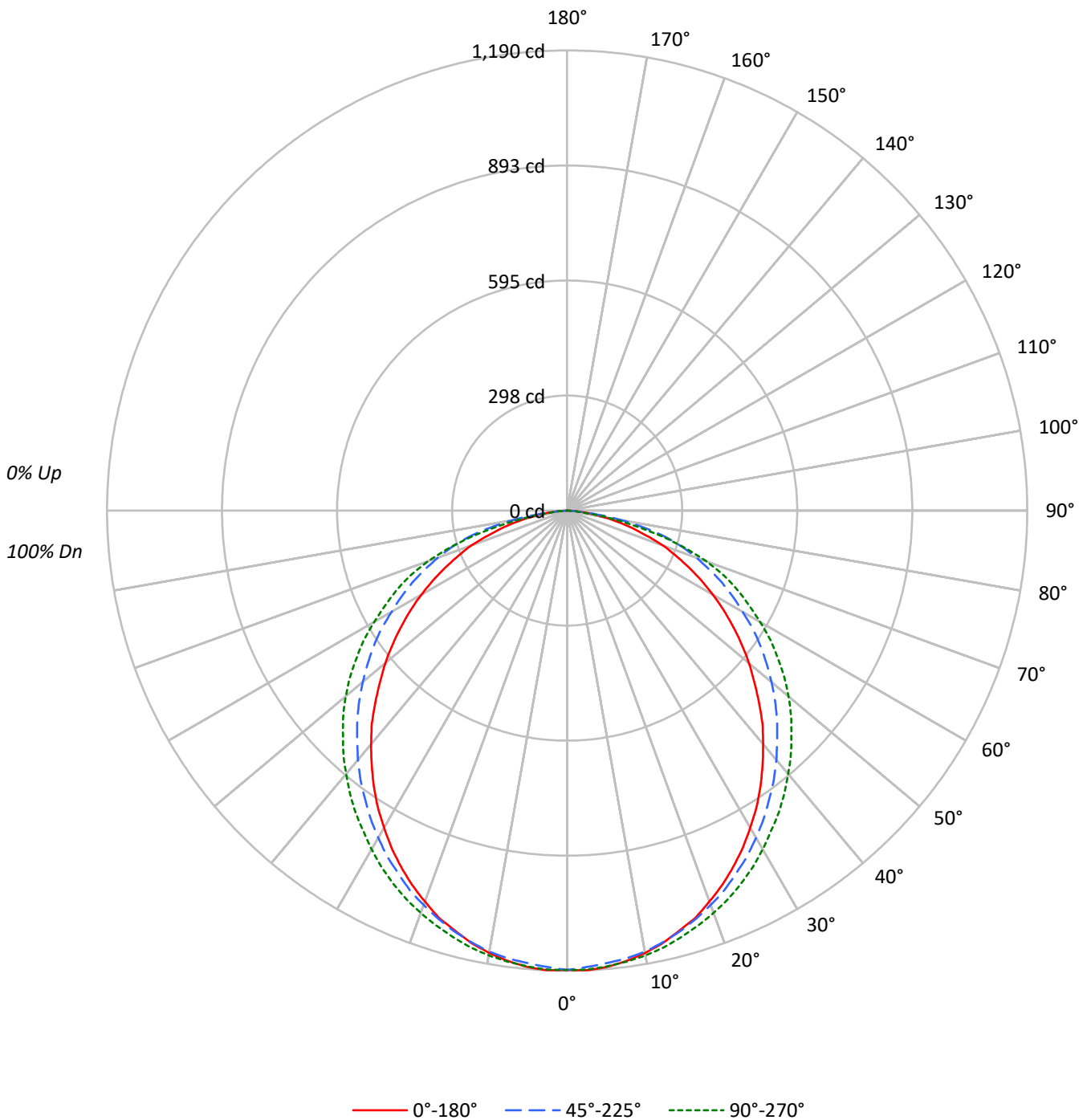
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3197	3197	3197
5°	3200	3173	3196
10°	3174	3165	3192
15°	3131	3140	3181
20°	3081	3109	3171
25°	3018	3072	3160
30°	2943	3035	3143
35°	2862	2992	3133
40°	2771	2956	3124
45°	2669	2920	3121
50°	2570	2887	3129
55°	2462	2864	3120
60°	2344	2824	3099
65°	2206	2816	3100
70°	2077	2792	3012
75°	1802	2728	2573
80°	1458	2199	1714
85°	969	766	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.4
10°-20°	319.2	9.6
20°-30°	478.9	14.4
30°-40°	571.2	17.2
40°-50°	590.5	17.7
50°-60°	539.2	16.2
60°-70°	424.3	12.7
70°-80°	247.0	7.4
80°-90°	45.5	1.4
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°	910.3	27.4
0°-40°	1481.5	44.5
0°-60°	2611.2	78.5
0°-90°	3328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1185	1181	1175	1185	1183	112
15°	1124	1125	1127	1142	1142	317
25°	1016	1021	1035	1059	1064	468
35°	871	883	911	946	954	545
45°	701	724	767	810	820	542
55°	525	553	610	655	665	469
65°	346	383	442	477	487	344
75°	173	214	262	257	248	184
85°	31	45	25	20	16	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1189.7	1186.4	1181.4	1189.7	1188.0
5°	1184.7	1181.4	1174.8	1184.7	1183.1
7.5°	1174.8	1171.5	1168.2	1178.1	1176.5
10°	1161.6	1160.0	1158.3	1169.9	1168.2
12.5°	1145.1	1145.1	1143.5	1156.7	1156.7
15°	1123.7	1125.3	1127.0	1141.8	1141.8
17.5°	1103.9	1102.2	1107.2	1123.7	1125.3
20°	1075.8	1079.1	1085.7	1105.5	1107.2
22.5°	1047.8	1051.1	1062.6	1082.4	1087.4
25°	1016.4	1021.4	1034.6	1059.3	1064.3
27.5°	983.4	990.0	1008.2	1034.6	1039.5
30°	947.1	957.0	976.8	1006.5	1011.5
32.5°	910.8	920.7	945.5	975.2	981.8
35°	871.2	882.8	910.8	945.5	953.7
37.5°	830.0	844.8	877.8	912.5	922.4
40°	788.7	805.2	841.5	877.8	889.4
42.5°	747.5	764.0	803.6	844.8	856.4
45°	701.3	724.4	767.3	810.2	820.1
47.5°	656.7	681.5	729.3	772.2	785.4
50°	613.8	638.6	689.7	734.3	747.5
52.5°	569.3	595.7	650.1	696.3	707.9
55°	524.7	552.8	610.5	655.1	665.0
57.5°	480.2	509.9	569.3	612.2	623.7
60°	435.6	467.0	524.7	567.6	575.9
62.5°	391.1	424.1	483.5	521.4	529.7
65°	346.5	382.8	442.2	476.9	486.8
67.5°	303.6	339.9	397.7	430.7	438.9
70°	264.0	297.0	354.8	379.5	382.8
72.5°	214.5	255.8	311.9	325.1	316.8
75°	173.3	214.5	262.4	257.4	247.5
77.5°	132.0	173.3	204.6	188.1	174.9
80°	94.1	135.3	141.9	117.2	110.6
82.5°	61.1	94.1	79.2	61.1	49.5
85°	31.4	44.6	24.8	19.8	16.5
87.5°	9.9	6.6	3.3	3.3	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)