

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: P275478

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3480.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

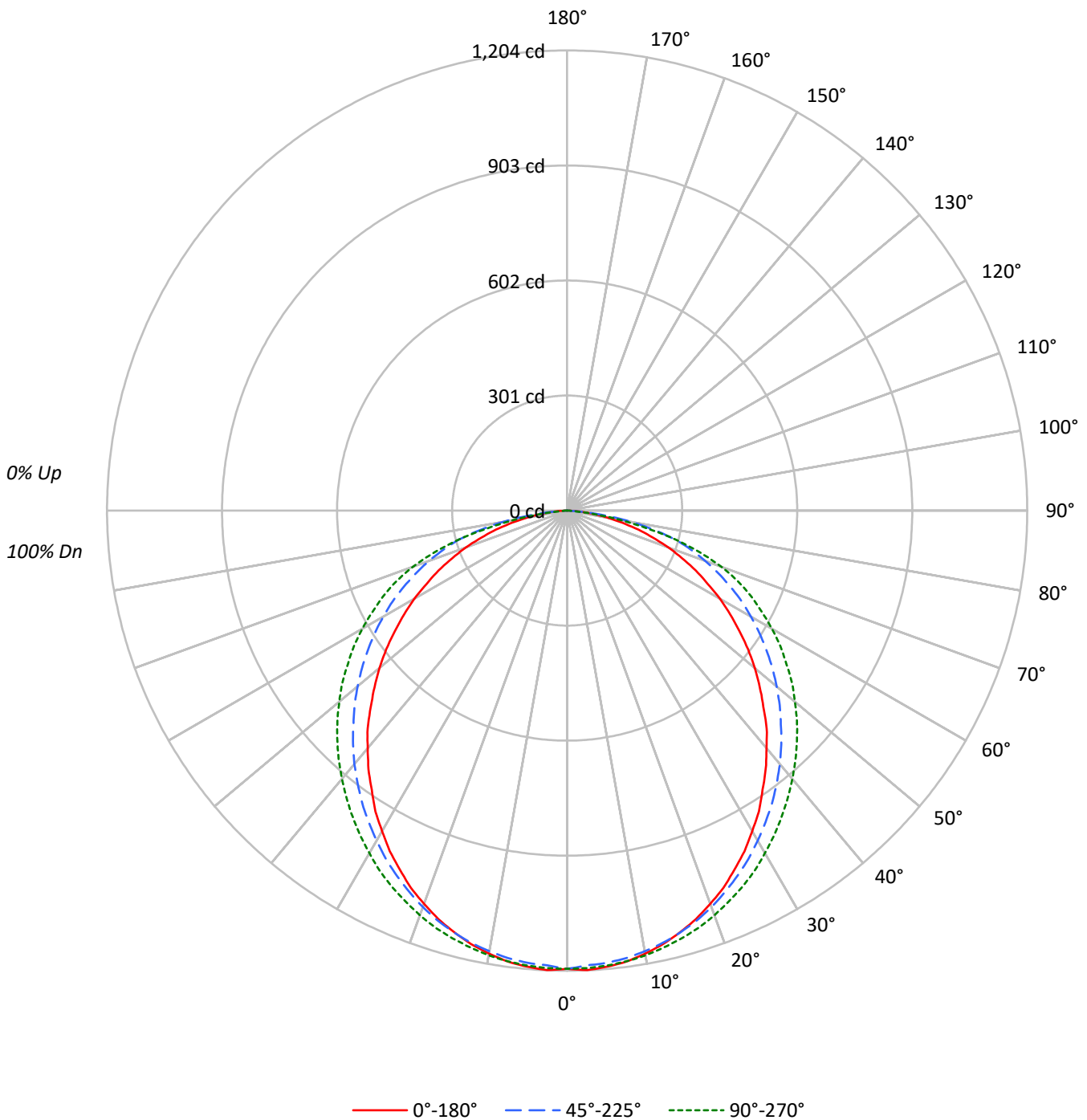
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3226	3226	3226
5°	3236	3209	3228
10°	3216	3199	3229
15°	3182	3184	3227
20°	3135	3162	3227
25°	3076	3131	3223
30°	3009	3098	3216
35°	2929	3072	3214
40°	2851	3042	3219
45°	2764	3009	3237
50°	2683	2995	3258
55°	2581	2985	3287
60°	2489	2990	3333
65°	2362	2999	3384
70°	2216	3022	3382
75°	2009	3049	3058
80°	1647	2633	2177
85°	1223	1247	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.3
10°-20°	324.1	9.3
20°-30°	488.2	14.0
30°-40°	585.8	16.8
40°-50°	610.6	17.5
50°-60°	565.3	16.2
60°-70°	456.7	13.1
70°-80°	278.5	8.0
80°-90°	57.5	1.7
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°	925.7	26.6
0°-40°	1511.5	43.4
0°-60°	2687.3	77.2
0°-90°	3480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1198	1195	1188	1196	1195	114
15°	1142	1143	1143	1158	1158	322
25°	1036	1042	1054	1081	1086	477
35°	892	906	935	969	978	559
45°	726	748	791	835	850	561
55°	550	579	636	686	701	493
65°	371	407	471	518	532	367
75°	193	236	293	298	294	203
85°	40	59	40	22	16	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.9	1198.9	1198.9	1198.9	1198.9
2.5°	1203.5	1199.6	1191.1	1199.6	1198.1
5°	1198.1	1195.0	1188.0	1196.5	1195.0
7.5°	1190.3	1187.2	1181.0	1191.1	1189.6
10°	1177.1	1175.6	1170.9	1182.6	1181.8
12.5°	1161.6	1160.8	1158.5	1171.7	1170.9
15°	1142.2	1143.0	1143.0	1158.5	1158.5
17.5°	1120.5	1122.1	1125.2	1142.2	1144.6
20°	1094.9	1098.0	1104.2	1123.6	1126.7
22.5°	1068.5	1070.8	1080.1	1103.4	1106.5
25°	1035.9	1042.1	1054.5	1080.9	1085.6
27.5°	1004.9	1010.3	1027.4	1054.5	1062.3
30°	968.4	976.9	997.1	1026.6	1035.1
32.5°	933.5	942.8	966.1	1000.2	1008.0
35°	891.6	905.6	935.0	969.2	978.5
37.5°	853.6	866.8	900.1	937.4	948.2
40°	811.7	828.0	866.0	905.6	916.4
42.5°	772.9	788.4	829.5	869.9	884.6
45°	726.3	748.0	790.7	834.9	850.5
47.5°	683.6	705.4	754.2	801.6	815.5
50°	640.9	664.2	715.4	764.3	778.3
52.5°	596.7	621.6	676.6	725.5	741.8
55°	550.2	578.9	636.3	686.0	700.7
57.5°	505.9	535.4	596.7	647.2	661.9
60°	462.5	492.7	555.6	603.7	619.2
62.5°	414.4	450.1	515.2	562.6	574.2
65°	370.9	407.4	471.0	518.3	531.5
67.5°	325.1	364.7	428.3	471.8	484.2
70°	281.7	322.8	384.1	424.5	429.9
72.5°	235.1	277.0	339.1	364.7	364.7
75°	193.2	235.9	293.3	298.0	294.1
77.5°	147.4	194.8	232.0	222.7	213.4
80°	106.3	152.9	169.9	152.9	140.5
82.5°	71.4	111.0	102.4	81.5	72.2
85°	39.6	59.0	40.4	22.5	16.3
87.5°	14.7	13.2	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)