

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: P275479

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275479
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 126.5 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

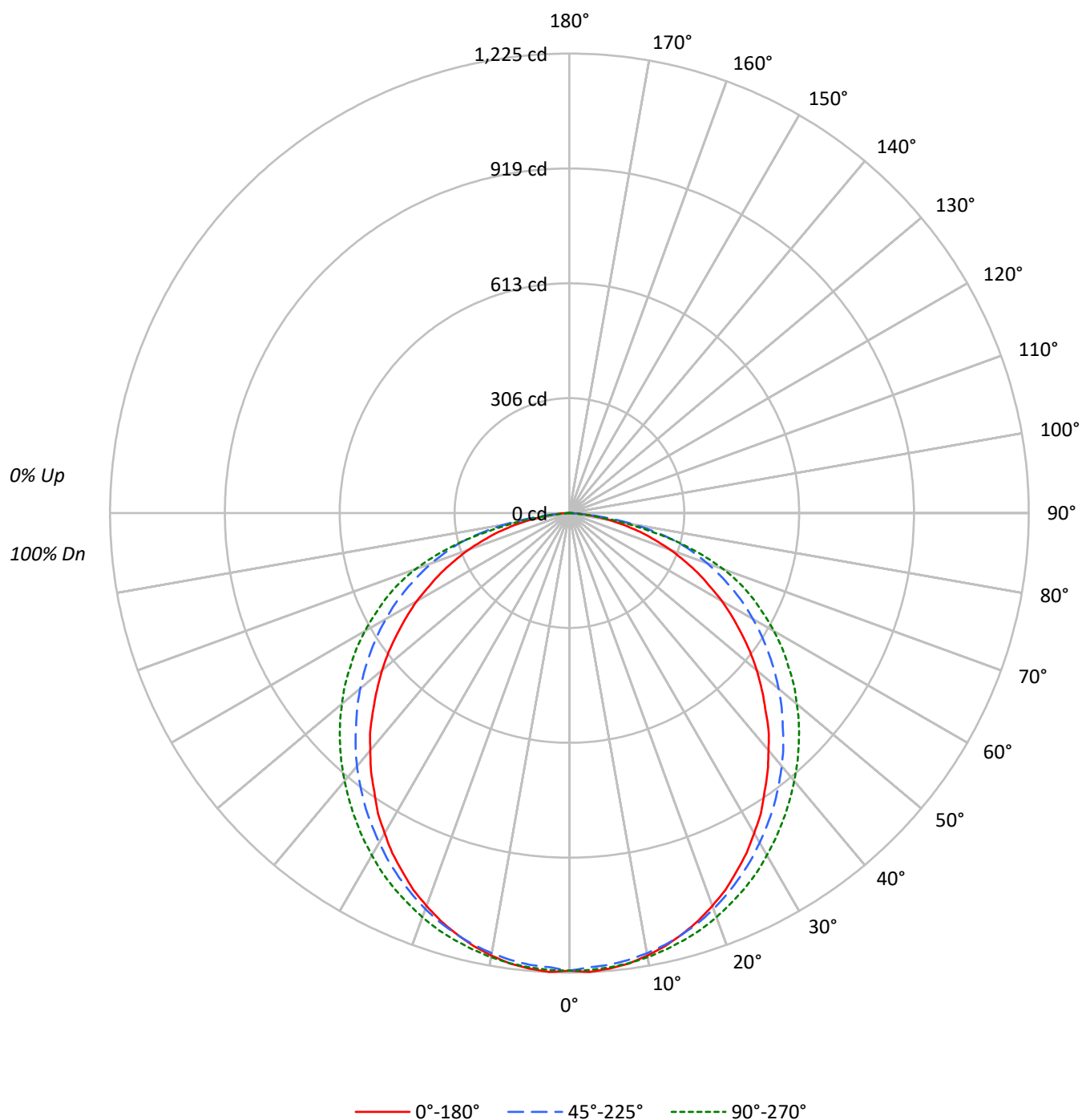
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	34
8	60	46	37	32	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		41	33	28		39	33	28		38	32	28
10	52	39	31	26	51	39	31	26		37	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3283	3283	3283
5°	3293	3265	3284
10°	3273	3256	3286
15°	3238	3240	3284
20°	3190	3218	3283
25°	3130	3186	3280
30°	3062	3153	3273
35°	2980	3125	3271
40°	2901	3095	3276
45°	2812	3062	3293
50°	2730	3048	3315
55°	2626	3037	3345
60°	2533	3042	3391
65°	2403	3052	3444
70°	2255	3075	3441
75°	2044	3104	3111
80°	1677	2679	2214
85°	1244	1269	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.3
10°-20°	329.7	9.3
20°-30°	496.7	14.0
30°-40°	596.1	16.8
40°-50°	621.3	17.5
50°-60°	575.2	16.2
60°-70°	464.7	13.1
70°-80°	283.3	8.0
80°-90°	58.5	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°	941.9	26.6
0°-40°	1538.0	43.4
0°-60°	2734.4	77.2
0°-90°	3541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1219	1216	1209	1218	1216	116
15°	1162	1163	1163	1179	1179	328
25°	1054	1060	1073	1100	1105	486
35°	907	921	951	986	996	568
45°	739	761	805	850	865	571
55°	560	589	647	698	713	502
65°	377	414	479	527	541	373
75°	197	240	298	303	299	206
85°	40	60	41	23	17	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.9	1219.9	1219.9	1219.9	1219.9
2.5°	1224.6	1220.7	1212.0	1220.7	1219.1
5°	1219.1	1215.9	1208.8	1217.5	1215.9
7.5°	1211.2	1208.0	1201.7	1212.0	1210.4
10°	1197.8	1196.2	1191.5	1203.3	1202.5
12.5°	1182.0	1181.2	1178.8	1192.3	1191.5
15°	1162.2	1163.0	1163.0	1178.8	1178.8
17.5°	1140.1	1141.7	1144.9	1162.2	1164.6
20°	1114.1	1117.2	1123.6	1143.3	1146.5
22.5°	1087.2	1089.6	1099.1	1122.8	1125.9
25°	1054.1	1060.4	1073.0	1099.9	1104.6
27.5°	1022.5	1028.0	1045.4	1073.0	1080.9
30°	985.4	994.1	1014.6	1044.6	1053.3
32.5°	949.9	959.3	983.0	1017.8	1025.7
35°	907.2	921.4	951.4	986.2	995.6
37.5°	868.5	881.9	915.9	953.8	964.9
40°	825.9	842.5	881.2	921.4	932.5
42.5°	786.4	802.2	844.1	885.1	900.1
45°	739.0	761.1	804.6	849.6	865.4
47.5°	695.6	717.7	767.5	815.6	829.8
50°	652.2	675.9	728.0	777.7	791.9
52.5°	607.2	632.4	688.5	738.2	754.8
55°	559.8	589.0	647.4	698.0	713.0
57.5°	514.8	544.8	607.2	658.5	673.5
60°	470.6	501.4	565.3	614.3	630.1
62.5°	421.6	458.0	524.3	572.4	584.3
65°	377.4	414.5	479.3	527.4	540.9
67.5°	330.8	371.1	435.8	480.1	492.7
70°	286.6	328.5	390.8	431.9	437.4
72.5°	239.2	281.9	345.0	371.1	371.1
75°	196.6	240.0	298.5	303.2	299.2
77.5°	150.0	198.2	236.1	226.6	217.1
80°	108.2	155.5	172.9	155.5	142.9
82.5°	72.6	112.9	104.2	82.9	73.4
85°	40.3	60.0	41.1	22.9	16.6
87.5°	15.0	13.4	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)