

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: P275476

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275476
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-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3290.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

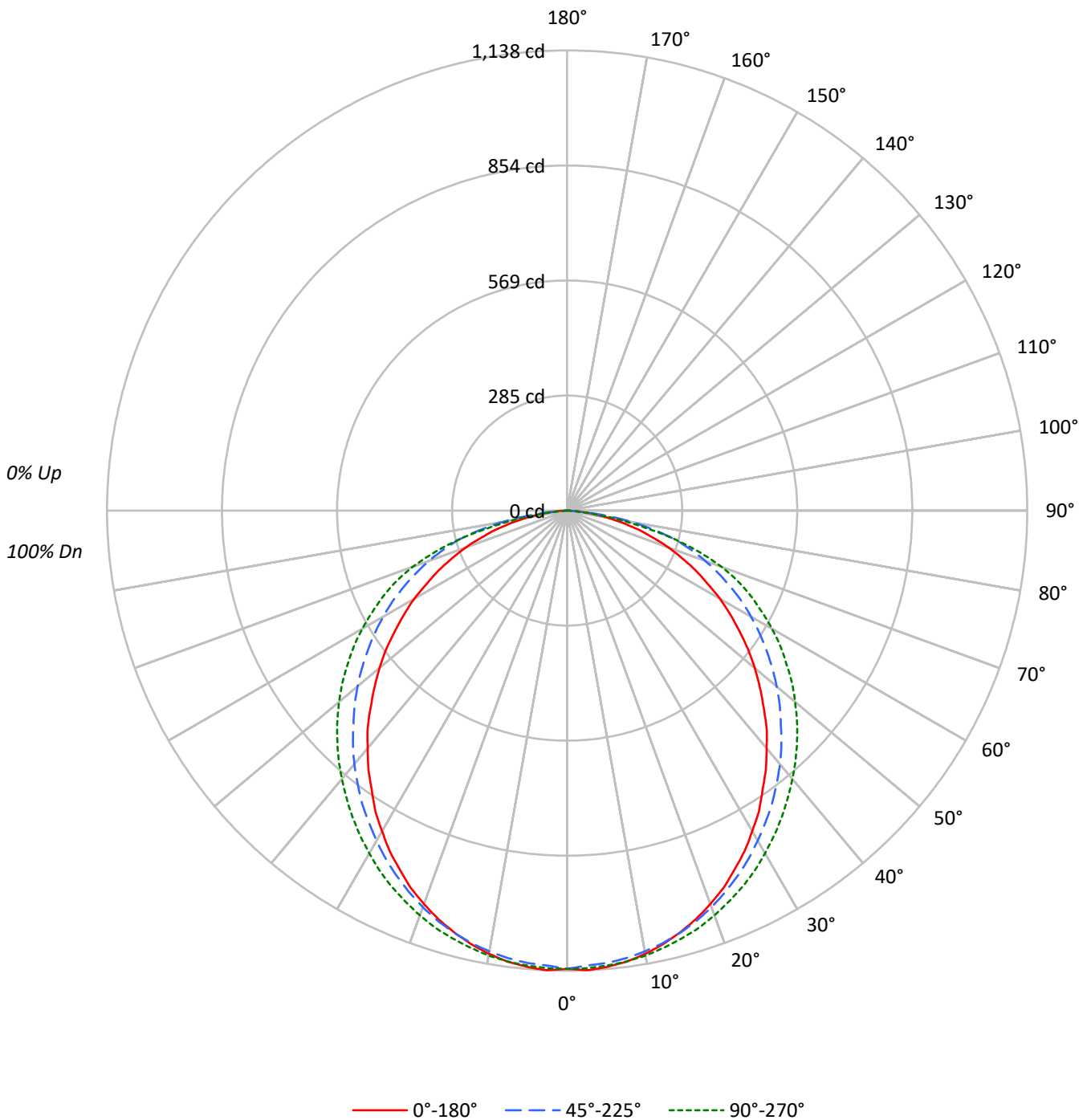
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3050	3050	3050
5°	3060	3034	3052
10°	3041	3025	3053
15°	3009	3010	3051
20°	2964	2989	3050
25°	2908	2960	3047
30°	2845	2929	3041
35°	2769	2904	3039
40°	2695	2876	3044
45°	2613	2845	3060
50°	2537	2832	3080
55°	2440	2822	3108
60°	2353	2827	3151
65°	2233	2835	3200
70°	2095	2857	3198
75°	1900	2883	2890
80°	1557	2490	2058
85°	1155	1176	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.3
10°-20°	306.4	9.3
20°-30°	461.5	14.0
30°-40°	553.8	16.8
40°-50°	577.2	17.5
50°-60°	534.4	16.2
60°-70°	431.8	13.1
70°-80°	263.3	8.0
80°-90°	54.4	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°	875.2	26.6
0°-40°	1429.0	43.4
0°-60°	2540.6	77.2
0°-90°	3290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1133	1130	1123	1131	1130	108
15°	1080	1081	1081	1095	1095	304
25°	979	985	997	1022	1026	451
35°	843	856	884	916	925	528
45°	687	707	748	789	804	531
55°	520	547	602	648	662	466
65°	351	385	445	490	502	347
75°	183	223	277	282	278	192
85°	37	56	38	21	15	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.4	1133.4	1133.4	1133.4	1133.4
2.5°	1137.8	1134.1	1126.1	1134.1	1132.7
5°	1132.7	1129.7	1123.1	1131.2	1129.7
7.5°	1125.3	1122.4	1116.5	1126.1	1124.6
10°	1112.9	1111.4	1107.0	1118.0	1117.3
12.5°	1098.2	1097.5	1095.3	1107.7	1107.0
15°	1079.9	1080.6	1080.6	1095.3	1095.3
17.5°	1059.3	1060.8	1063.7	1079.9	1082.1
20°	1035.1	1038.0	1043.9	1062.3	1065.2
22.5°	1010.2	1012.4	1021.2	1043.2	1046.1
25°	979.4	985.2	997.0	1021.9	1026.3
27.5°	950.0	955.2	971.3	997.0	1004.3
30°	915.5	923.6	942.7	970.6	978.6
32.5°	882.5	891.3	913.3	945.6	952.9
35°	842.9	856.1	884.0	916.3	925.1
37.5°	807.0	819.4	851.0	886.2	896.5
40°	767.3	782.8	818.7	856.1	866.4
42.5°	730.7	745.3	784.2	822.4	836.3
45°	686.7	707.2	747.5	789.4	804.0
47.5°	646.3	666.8	713.1	757.8	771.0
50°	606.0	628.0	676.4	722.6	735.8
52.5°	564.1	587.6	639.7	685.9	701.3
55°	520.1	547.3	601.6	648.5	662.4
57.5°	478.3	506.2	564.1	611.8	625.8
60°	437.2	465.8	525.3	570.7	585.4
62.5°	391.7	425.5	487.1	531.9	542.9
65°	350.7	385.1	445.3	490.0	502.5
67.5°	307.4	344.8	404.9	446.0	457.8
70°	266.3	305.2	363.1	401.3	406.4
72.5°	222.3	261.9	320.6	344.8	344.8
75°	182.7	223.0	277.3	281.7	278.0
77.5°	139.4	184.1	219.3	210.5	201.7
80°	100.5	144.5	160.7	144.5	132.8
82.5°	67.5	104.9	96.8	77.0	68.2
85°	37.4	55.8	38.1	21.3	15.4
87.5°	13.9	12.5	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)