

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: P275646

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275646  
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-L82765-W2A1-U-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3516.0 lumens  
Efficiency: N/A  
Efficacy: 126.9 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

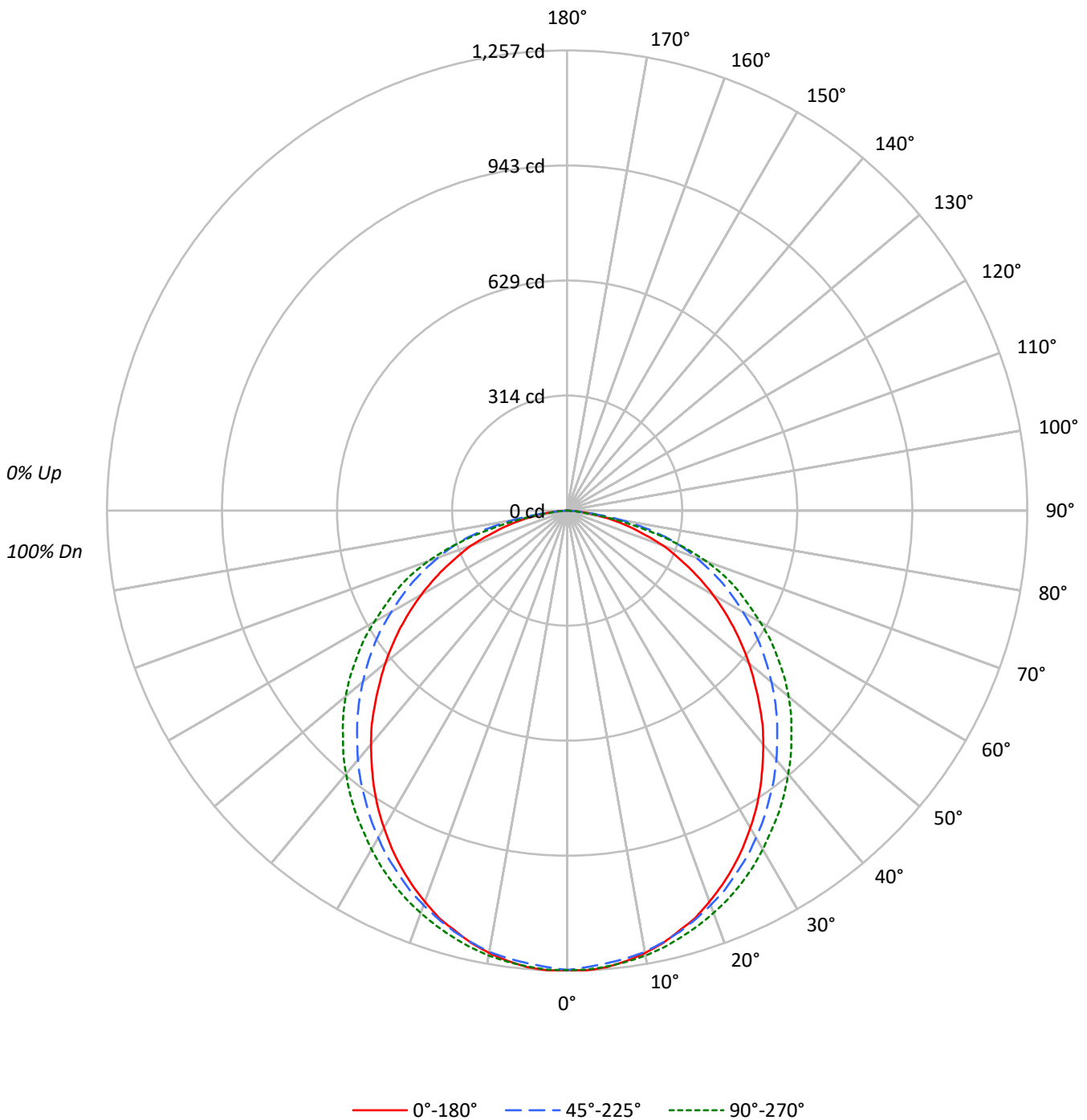
Input Watts (W): 27.714  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3378	3378	3378
5°	3381	3353	3376
10°	3354	3344	3372
15°	3307	3317	3361
20°	3255	3285	3350
25°	3189	3245	3339
30°	3109	3207	3320
35°	3024	3161	3310
40°	2927	3123	3301
45°	2820	3085	3297
50°	2715	3051	3306
55°	2601	3026	3296
60°	2477	2984	3274
65°	2331	2975	3275
70°	2194	2949	3182
75°	1903	2882	2719
80°	1540	2323	1810
85°	1022	806	537



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	3.4
10°-20°	337.3	9.6
20°-30°	505.9	14.4
30°-40°	603.5	17.2
40°-50°	623.9	17.7
50°-60°	569.6	16.2
60°-70°	448.3	12.7
70°-80°	260.9	7.4
80°-90°	48.1	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°	961.7	27.4
0°-40°	1565.2	44.5
0°-60°	2758.7	78.5
0°-90°	3516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3516.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1252	1248	1241	1252	1250	119
15°	1187	1189	1191	1206	1206	335
25°	1074	1079	1093	1119	1124	494
35°	920	933	962	999	1008	575
45°	741	765	811	856	866	572
55°	554	584	645	692	702	496
65°	366	404	467	504	514	364
75°	183	227	277	272	262	195
85°	33	47	26	21	17	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1255.2	1255.2	1255.2	1255.2	1255.2
2.5°	1256.9	1253.4	1248.2	1256.9	1255.2
5°	1251.7	1248.2	1241.2	1251.7	1249.9
7.5°	1241.2	1237.7	1234.2	1244.7	1243.0
10°	1227.3	1225.5	1223.8	1236.0	1234.2
12.5°	1209.8	1209.8	1208.1	1222.0	1222.0
15°	1187.2	1188.9	1190.7	1206.3	1206.3
17.5°	1166.2	1164.5	1169.7	1187.2	1188.9
20°	1136.6	1140.1	1147.1	1168.0	1169.7
22.5°	1107.0	1110.5	1122.7	1143.6	1148.8
25°	1073.9	1079.1	1093.0	1119.2	1124.4
27.5°	1039.0	1046.0	1065.1	1093.0	1098.3
30°	1000.6	1011.1	1032.0	1063.4	1068.6
32.5°	962.3	972.7	998.9	1030.3	1037.2
35°	920.4	932.6	962.3	998.9	1007.6
37.5°	876.9	892.6	927.4	964.0	974.5
40°	833.3	850.7	889.1	927.4	939.6
42.5°	789.7	807.1	849.0	892.6	904.8
45°	740.9	765.3	810.6	855.9	866.4
47.5°	693.8	720.0	770.5	815.8	829.8
50°	648.5	674.6	728.7	775.8	789.7
52.5°	601.4	629.3	686.8	735.7	747.9
55°	554.4	584.0	645.0	692.1	702.5
57.5°	507.3	538.7	601.4	646.8	659.0
60°	460.2	493.3	554.4	599.7	608.4
62.5°	413.2	448.0	510.8	550.9	559.6
65°	366.1	404.4	467.2	503.8	514.3
67.5°	320.8	359.1	420.1	455.0	463.7
70°	278.9	313.8	374.8	401.0	404.4
72.5°	226.6	270.2	329.5	343.4	334.7
75°	183.0	226.6	277.2	271.9	261.5
77.5°	139.5	183.0	216.2	198.7	184.8
80°	99.4	142.9	149.9	123.8	116.8
82.5°	64.5	99.4	83.7	64.5	52.3
85°	33.1	47.1	26.1	20.9	17.4
87.5°	10.5	7.0	3.5	3.5	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)