

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: P275701

Luminaire Tested: **14CZ2-35-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275701  
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-L92765-W2A1-U-4500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3191.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

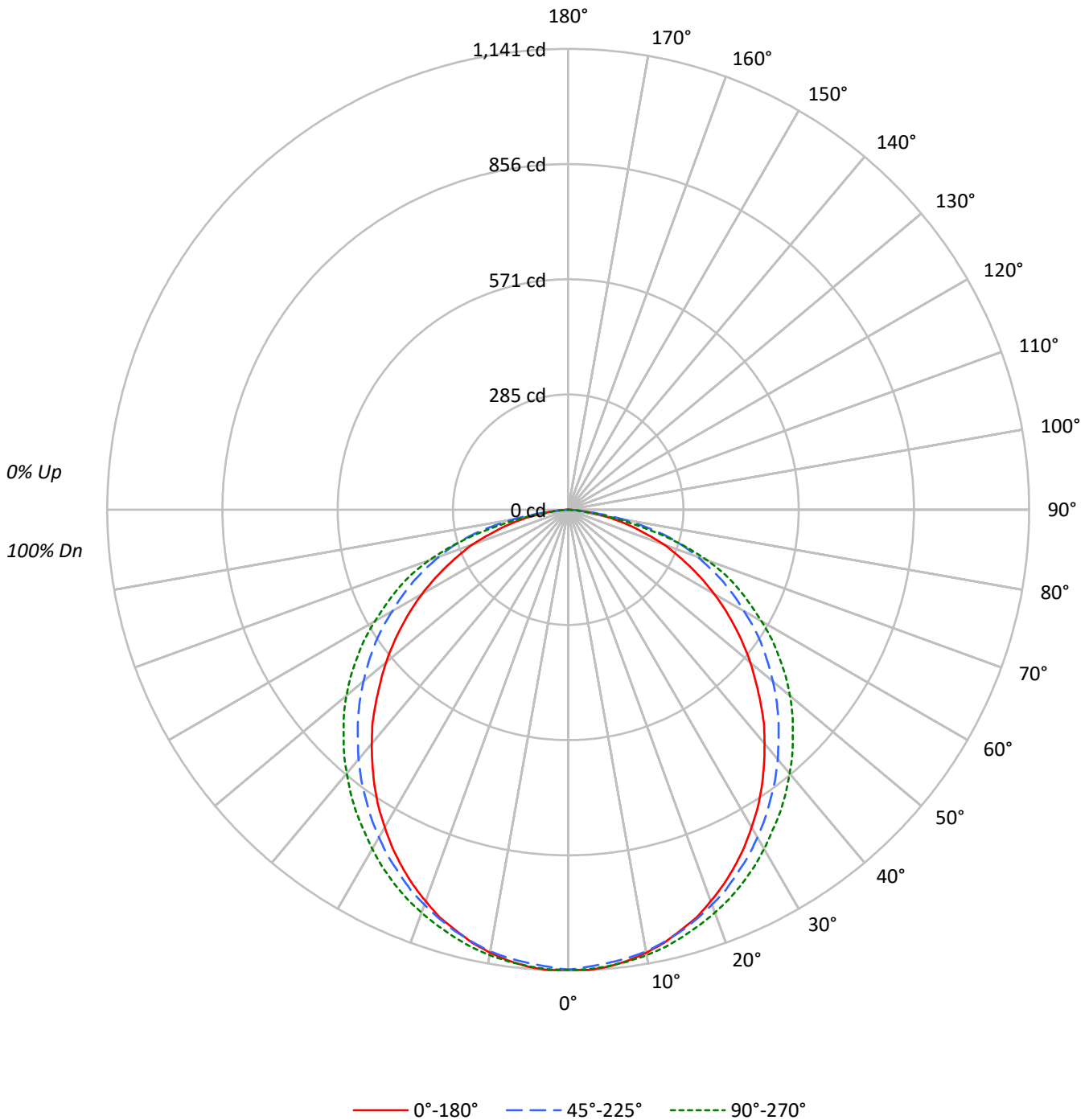
Input Watts (W): 27.993  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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°	3065	3065	3065
5°	3069	3043	3064
10°	3043	3035	3061
15°	3002	3010	3050
20°	2954	2981	3040
25°	2894	2945	3030
30°	2822	2910	3013
35°	2744	2869	3004
40°	2657	2834	2996
45°	2559	2800	2992
50°	2464	2768	3000
55°	2360	2746	2991
60°	2248	2708	2972
65°	2115	2700	2972
70°	1991	2677	2888
75°	1727	2616	2467
80°	1398	2109	1643
85°	929	732	488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	3.4
10°-20°	306.1	9.6
20°-30°	459.1	14.4
30°-40°	547.7	17.2
40°-50°	566.2	17.7
50°-60°	517.0	16.2
60°-70°	406.8	12.7
70°-80°	236.8	7.4
80°-90°	43.6	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°	872.8	27.4
0°-40°	1420.5	44.5
0°-60°	2503.7	78.5
0°-90°	3191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3191.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1136	1133	1126	1136	1134	108
15°	1077	1079	1081	1095	1095	304
25°	975	979	992	1016	1020	449
35°	835	846	873	907	914	522
45°	672	695	736	777	786	519
55°	503	530	585	628	638	450
65°	332	367	424	457	467	330
75°	166	206	252	247	237	177
85°	30	43	24	19	16	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1140.7	1137.6	1132.8	1140.7	1139.1
5°	1136.0	1132.8	1126.5	1136.0	1134.4
7.5°	1126.5	1123.3	1120.1	1129.6	1128.1
10°	1113.8	1112.2	1110.7	1121.7	1120.1
12.5°	1098.0	1098.0	1096.4	1109.1	1109.1
15°	1077.4	1079.0	1080.6	1094.8	1094.8
17.5°	1058.4	1056.9	1061.6	1077.4	1079.0
20°	1031.5	1034.7	1041.0	1060.0	1061.6
22.5°	1004.7	1007.8	1018.9	1037.9	1042.6
25°	974.6	979.3	992.0	1015.7	1020.5
27.5°	942.9	949.3	966.7	992.0	996.7
30°	908.1	917.6	936.6	965.1	969.8
32.5°	873.3	882.8	906.6	935.0	941.4
35°	835.4	846.4	873.3	906.6	914.5
37.5°	795.8	810.1	841.7	874.9	884.4
40°	756.3	772.1	806.9	841.7	852.8
42.5°	716.7	732.5	770.5	810.1	821.1
45°	672.4	694.6	735.7	776.8	786.3
47.5°	629.7	653.4	699.3	740.4	753.1
50°	588.6	612.3	661.3	704.0	716.7
52.5°	545.8	571.1	623.4	667.7	678.7
55°	503.1	530.0	585.4	628.1	637.6
57.5°	460.4	488.9	545.8	587.0	598.0
60°	417.7	447.7	503.1	544.3	552.2
62.5°	375.0	406.6	463.6	500.0	507.9
65°	332.2	367.1	424.0	457.2	466.7
67.5°	291.1	325.9	381.3	412.9	420.8
70°	253.1	284.8	340.2	363.9	367.1
72.5°	205.7	245.2	299.0	311.7	303.8
75°	166.1	205.7	251.6	246.8	237.3
77.5°	126.6	166.1	196.2	180.4	167.7
80°	90.2	129.7	136.1	112.3	106.0
82.5°	58.5	90.2	75.9	58.5	47.5
85°	30.1	42.7	23.7	19.0	15.8
87.5°	9.5	6.3	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)