

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: P258849

Luminaire Tested: **14CZ-LD5-35-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3267.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

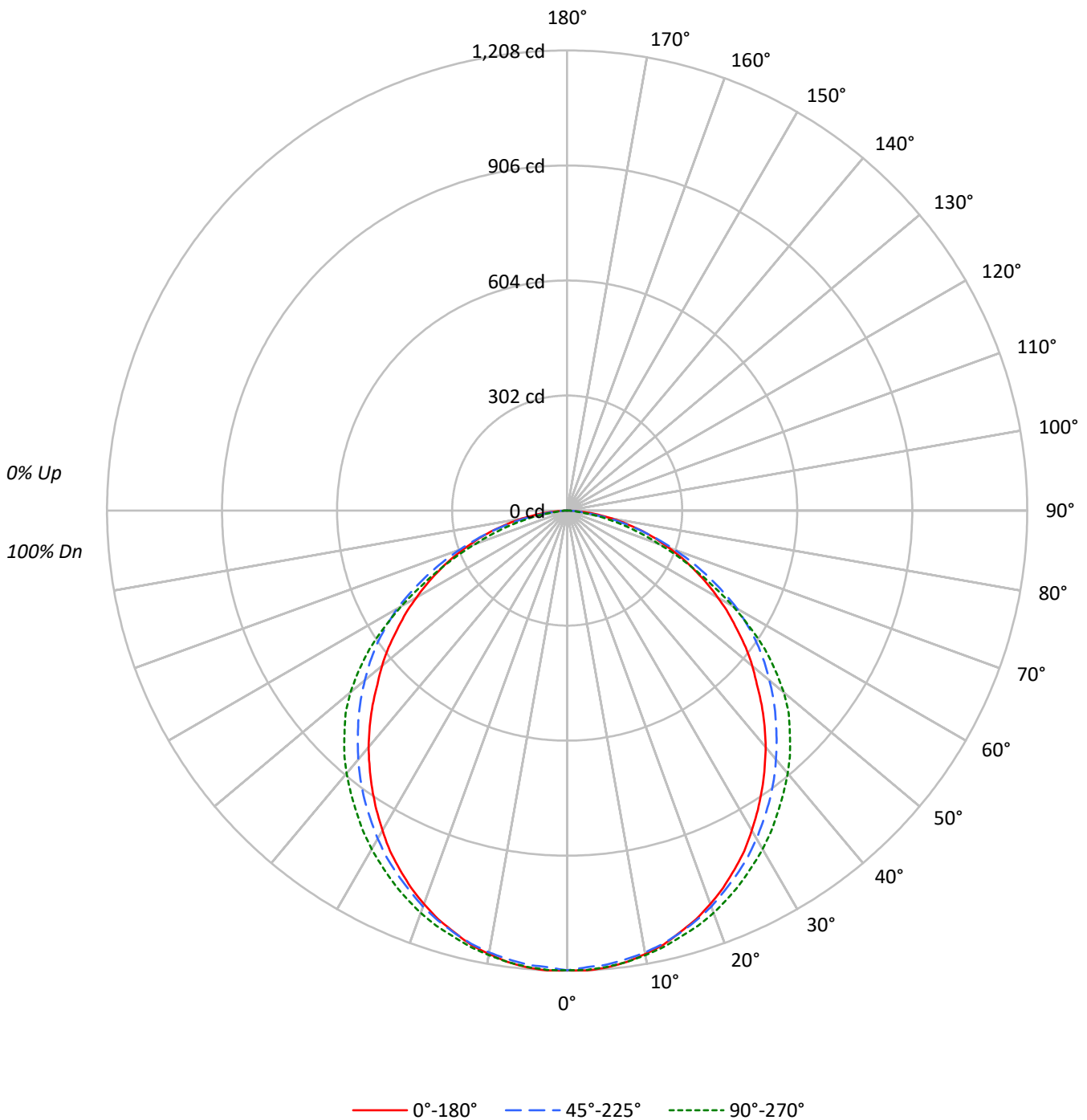
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3247	3247	3247
5°	3252	3232	3248
10°	3230	3218	3238
15°	3192	3196	3224
20°	3147	3168	3218
25°	3086	3130	3203
30°	3013	3090	3189
35°	2932	3046	3171
40°	2849	2997	3165
45°	2748	2947	3147
50°	2657	2901	3108
55°	2555	2855	2971
60°	2460	2773	2711
65°	2355	2595	2382
70°	2222	2360	2016
75°	2073	2043	1665
80°	1827	1579	1218
85°	1439	763	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.5
10°-20°	324.9	9.9
20°-30°	487.5	14.9
30°-40°	581.2	17.8
40°-50°	598.7	18.3
50°-60°	533.5	16.3
60°-70°	384.4	11.8
70°-80°	201.1	6.2
80°-90°	41.6	1.3
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°	926.4	28.4
0°-40°	1507.7	46.1
0°-60°	2639.9	80.8
0°-90°	3267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1204	1201	1197	1204	1202	114
15°	1146	1147	1147	1159	1157	323
25°	1039	1045	1054	1074	1079	479
35°	892	904	927	958	965	558
45°	722	738	774	818	827	557
55°	544	562	608	636	633	488
65°	370	383	408	389	374	366
75°	199	210	196	170	160	211
85°	47	41	25	22	22	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.8	1206.8	1206.8	1206.8	1206.8
2.5°	1208.3	1205.4	1199.6	1206.8	1206.8
5°	1203.9	1201.0	1196.6	1203.9	1202.5
7.5°	1195.2	1192.3	1187.9	1196.6	1195.2
10°	1182.1	1180.6	1177.7	1186.5	1185.0
12.5°	1167.5	1166.1	1164.6	1173.3	1173.3
15°	1145.7	1147.1	1147.1	1158.8	1157.3
17.5°	1125.3	1126.8	1128.2	1142.8	1142.8
20°	1099.1	1100.6	1106.4	1122.4	1123.9
22.5°	1071.4	1072.9	1080.2	1099.1	1102.0
25°	1039.4	1045.2	1054.0	1074.4	1078.7
27.5°	1007.4	1011.8	1026.3	1049.6	1052.5
30°	969.5	978.3	994.3	1020.5	1026.3
32.5°	931.7	941.9	960.8	989.9	997.2
35°	892.4	904.0	927.3	957.9	965.2
37.5°	851.6	861.8	890.9	923.0	933.1
40°	810.9	821.1	853.1	889.5	901.1
42.5°	767.2	781.7	813.8	854.5	866.2
45°	722.1	738.1	774.5	818.1	826.9
47.5°	675.5	692.9	735.2	778.8	789.0
50°	634.7	650.7	692.9	735.2	742.4
52.5°	591.0	605.6	652.2	687.1	688.6
55°	544.5	561.9	608.5	636.2	633.3
57.5°	502.2	516.8	561.9	576.5	567.7
60°	457.1	470.2	515.3	516.8	503.7
62.5°	413.4	426.5	461.5	451.3	435.3
65°	369.8	382.9	407.6	388.7	374.1
67.5°	327.5	339.2	353.8	329.0	314.4
70°	282.4	298.4	299.9	270.8	256.2
72.5°	243.1	251.8	248.9	221.3	208.2
75°	199.4	209.6	196.5	170.3	160.1
77.5°	158.7	166.0	148.5	123.7	116.5
80°	117.9	122.3	101.9	83.0	78.6
82.5°	80.1	80.1	58.2	45.1	40.8
85°	46.6	40.8	24.7	21.8	21.8
87.5°	16.0	10.2	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)