

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: P258995

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1293.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

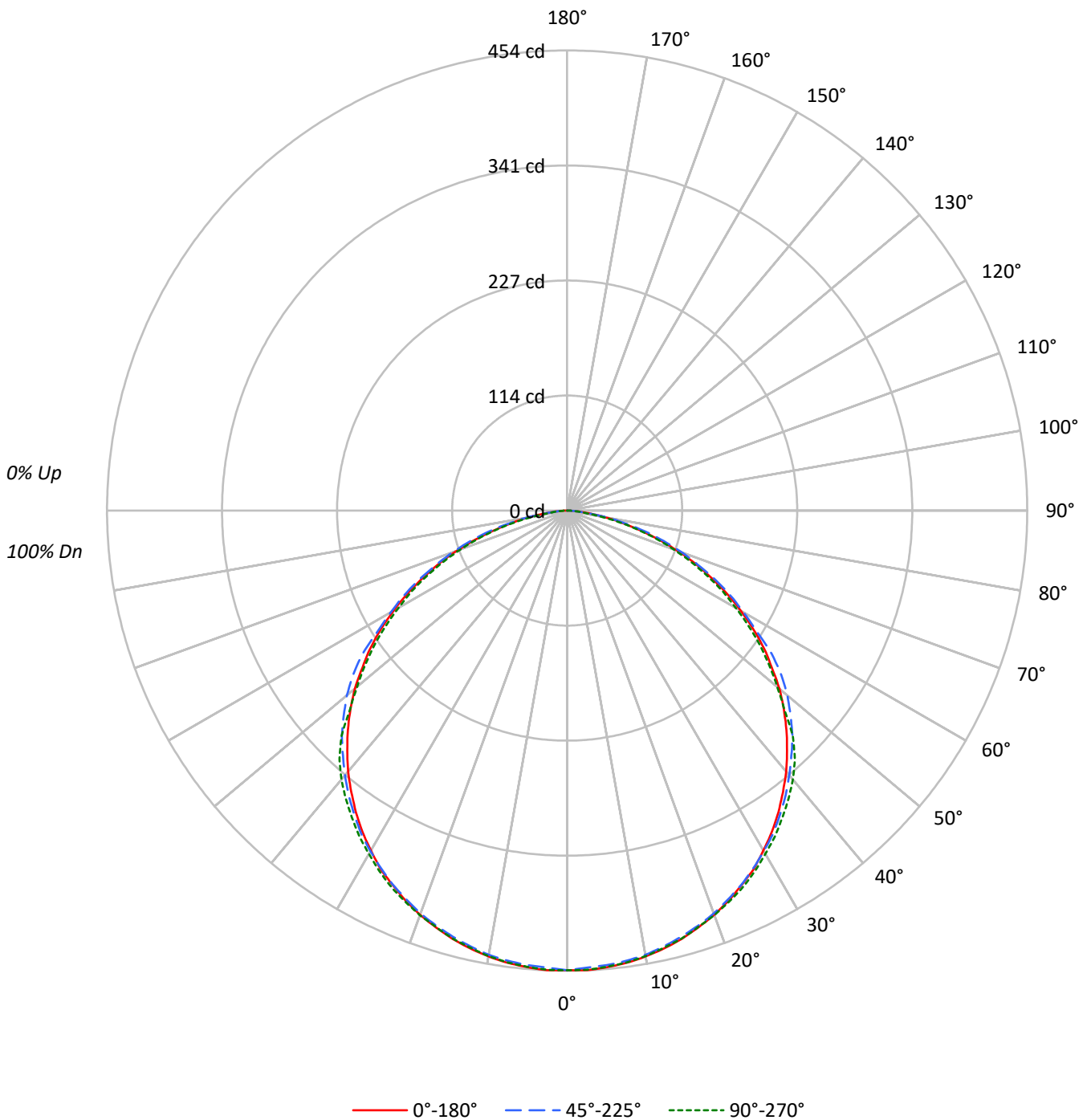
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1220	1220	1220
5°	1222	1216	1220
10°	1221	1216	1220
15°	1219	1213	1217
20°	1215	1212	1216
25°	1210	1209	1218
30°	1203	1206	1215
35°	1193	1203	1215
40°	1181	1198	1217
45°	1165	1196	1198
50°	1145	1187	1133
55°	1113	1156	1091
60°	1066	1082	1034
65°	998	1025	972
70°	909	945	879
75°	758	829	744
80°	601	634	516
85°	389	340	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	3.3
10°-20°	123.3	9.5
20°-30°	188.2	14.6
30°-40°	229.5	17.7
40°-50°	240.3	18.6
50°-60°	213.8	16.5
60°-70°	157.7	12.2
70°-80°	81.5	6.3
80°-90°	15.8	1.2
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°	354.4	27.4
0°-40°	583.9	45.2
0°-60°	1037.9	80.3
0°-90°	1293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	452	452	450	452	452	43
15°	437	437	435	437	437	123
25°	408	408	407	410	410	188
35°	363	364	366	370	370	227
45°	306	308	314	317	315	236
55°	237	242	246	236	233	211
65°	157	168	161	156	153	155
75°	73	80	80	73	72	79
85°	13	14	11	10	10	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453.5	453.5	453.5	453.5	453.5
2.5°	453.9	453.5	451.4	453.5	453.5
5°	452.2	451.8	450.1	451.8	451.8
7.5°	450.1	449.7	448.0	449.7	449.7
10°	446.7	446.3	445.0	446.7	446.3
12.5°	442.5	442.5	440.4	442.5	441.7
15°	437.4	437.0	435.3	437.0	437.0
17.5°	431.1	430.7	429.4	431.5	430.7
20°	424.4	424.0	423.1	425.2	424.8
22.5°	416.4	416.4	415.1	417.6	417.6
25°	407.5	407.5	407.1	410.1	410.1
27.5°	398.7	397.8	397.8	400.8	401.2
30°	387.3	387.3	388.1	391.5	391.1
32.5°	375.9	376.3	378.0	381.0	381.4
35°	363.3	363.7	366.2	370.4	370.0
37.5°	349.8	351.1	354.0	358.6	358.6
40°	336.3	337.1	340.9	346.0	346.4
42.5°	321.1	323.2	327.5	333.4	332.5
45°	306.0	308.1	314.4	317.3	314.8
47.5°	289.9	292.5	298.8	299.2	290.8
50°	273.5	276.5	283.6	275.2	270.6
52.5°	254.5	260.0	266.3	254.5	251.6
55°	237.3	242.3	246.5	236.0	232.6
57.5°	217.9	224.6	221.7	216.6	212.4
60°	198.1	205.2	201.0	196.0	192.2
62.5°	177.8	185.9	181.6	176.6	173.2
65°	156.8	167.7	161.0	155.5	152.6
67.5°	137.0	147.5	139.5	135.3	132.3
70°	115.5	124.3	120.1	114.6	111.7
72.5°	94.4	101.1	99.9	94.0	91.9
75°	72.9	80.5	79.7	73.3	71.6
77.5°	54.8	62.0	59.4	54.4	52.3
80°	38.8	43.4	40.9	35.0	33.3
82.5°	23.6	27.4	23.2	19.8	18.1
85°	12.6	13.9	11.0	10.1	9.7
87.5°	4.6	4.6	4.6	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)