

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: P259158

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1232.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

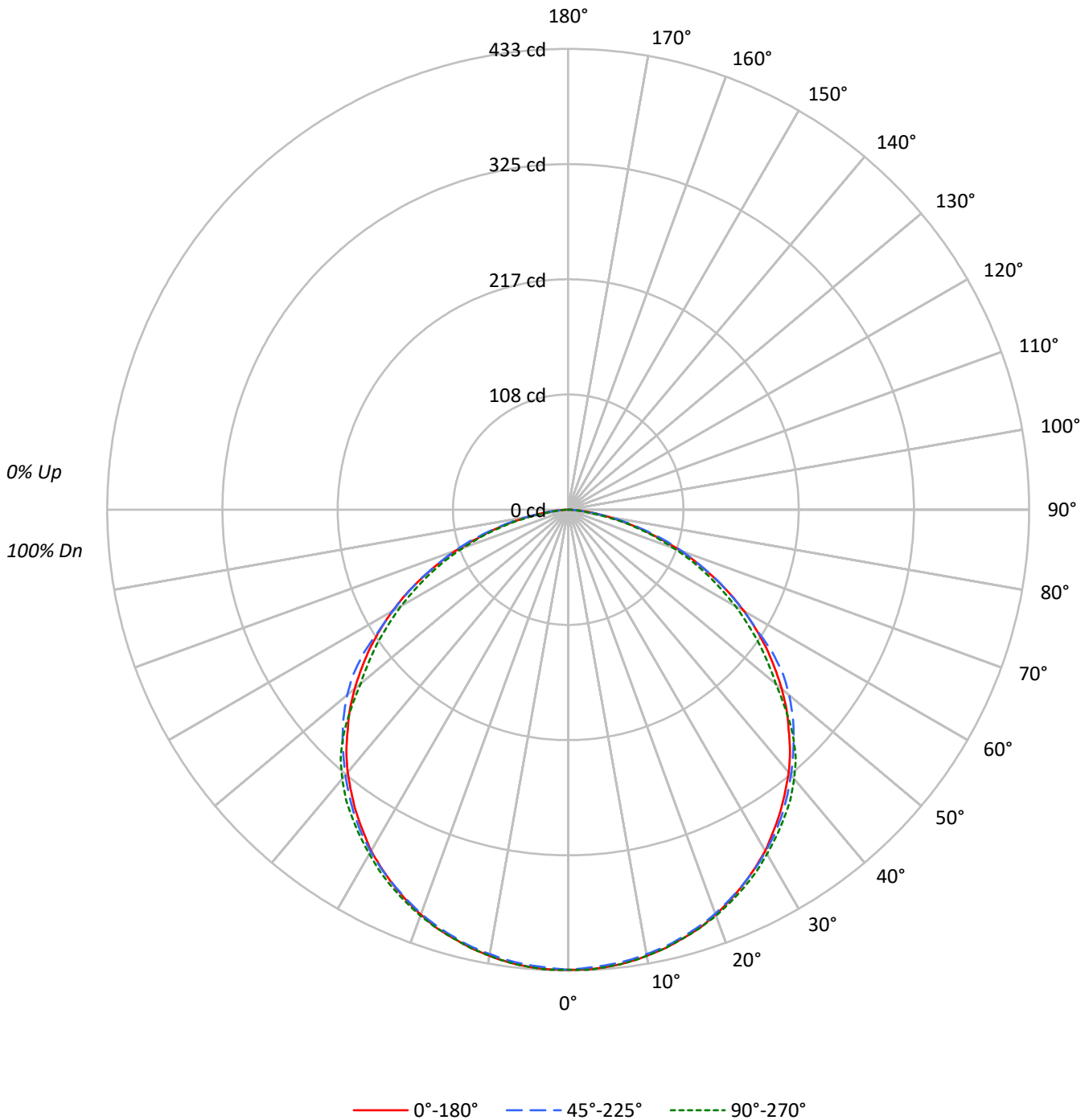
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1163	1163	1163
5°	1165	1160	1165
10°	1163	1159	1163
15°	1161	1158	1161
20°	1159	1157	1163
25°	1155	1154	1162
30°	1150	1153	1161
35°	1141	1150	1161
40°	1132	1143	1160
45°	1115	1140	1136
50°	1096	1134	1066
55°	1067	1098	1026
60°	1026	1024	977
65°	962	967	914
70°	884	893	828
75°	742	777	707
80°	589	601	497
85°	386	333	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	3.3
10°-20°	117.7	9.6
20°-30°	179.7	14.6
30°-40°	219.2	17.8
40°-50°	229.3	18.6
50°-60°	203.0	16.5
60°-70°	149.5	12.1
70°-80°	77.4	6.3
80°-90°	15.4	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°	338.3	27.5
0°-40°	557.5	45.3
0°-60°	989.8	80.3
0°-90°	1232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	432	432	432	432	432	
5°	431	431	429	431	431	41
15°	417	417	416	417	417	118
25°	389	389	388	391	391	179
35°	347	348	350	354	354	217
45°	293	296	300	302	298	226
55°	227	232	234	222	219	203
65°	151	160	152	146	144	150
75°	71	76	75	70	68	76
85°	12	13	11	10	9	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	432.3	432.3	432.3	432.3	432.3
2.5°	432.3	432.3	430.7	432.3	432.7
5°	431.1	431.1	429.4	431.1	431.1
7.5°	429.0	428.6	427.3	429.0	429.0
10°	425.7	425.7	424.0	426.1	425.7
12.5°	421.9	421.5	420.6	422.3	421.9
15°	416.9	416.9	415.6	417.3	416.9
17.5°	411.9	411.5	410.2	411.9	411.9
20°	404.8	404.4	404.0	405.6	406.0
22.5°	397.3	396.9	396.4	398.9	398.9
25°	388.9	388.9	388.5	391.0	391.4
27.5°	379.7	379.7	380.2	383.5	383.1
30°	370.2	370.2	371.0	373.5	373.5
32.5°	358.5	359.3	361.0	363.9	363.9
35°	347.2	348.0	350.1	353.5	353.5
37.5°	334.7	335.9	338.0	342.2	343.0
40°	322.2	323.0	325.5	330.1	330.1
42.5°	308.4	309.2	312.6	317.2	316.3
45°	292.9	295.5	299.6	302.1	298.4
47.5°	278.3	280.0	285.9	282.9	276.7
50°	261.7	265.0	270.8	260.4	254.6
52.5°	244.5	248.3	254.6	240.0	236.6
55°	227.4	232.0	234.1	222.0	218.7
57.5°	209.1	214.1	209.9	202.8	199.5
60°	190.7	196.6	190.3	183.6	181.5
62.5°	171.5	178.2	171.1	165.3	162.3
65°	151.1	160.2	151.9	146.1	143.6
67.5°	131.0	140.6	131.9	126.9	125.2
70°	112.3	117.7	113.5	108.5	105.2
72.5°	89.7	95.1	94.3	88.9	86.8
75°	71.4	76.4	74.7	70.1	68.0
77.5°	53.0	58.4	56.8	51.3	50.5
80°	38.0	41.7	38.8	33.8	32.1
82.5°	23.8	26.7	23.0	19.2	18.4
85°	12.5	13.4	10.8	9.6	9.2
87.5°	4.2	4.6	4.6	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)