

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: P258622

Luminaire Tested: **14CZ-LD5-29-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-UNV-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3073.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

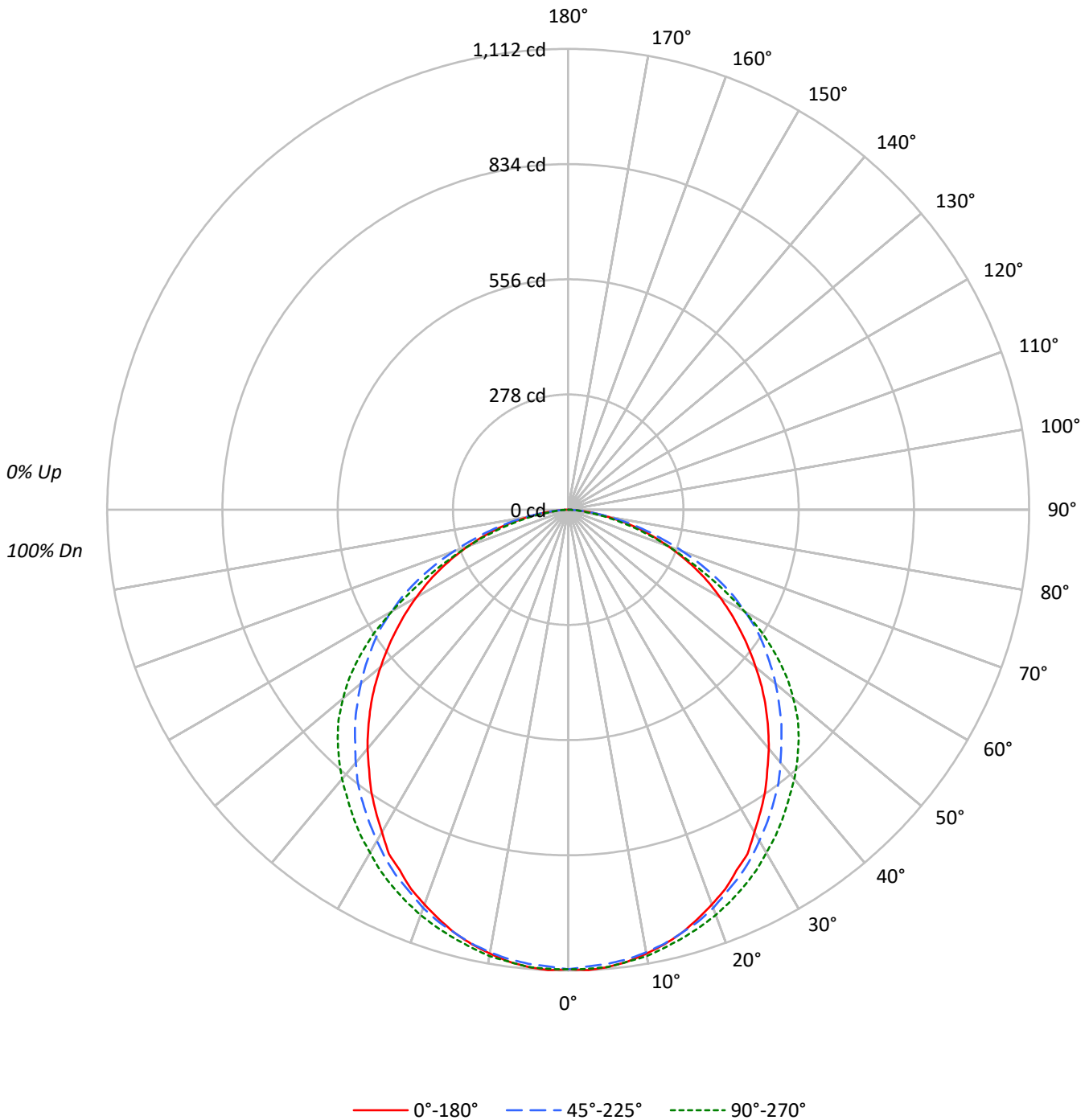
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2984	2984	2984
5°	2991	2971	2991
10°	2972	2964	2989
15°	2946	2946	2980
20°	2902	2928	2981
25°	2852	2901	2978
30°	2792	2867	2970
35°	2722	2837	2971
40°	2645	2799	2980
45°	2566	2767	2992
50°	2473	2734	2968
55°	2374	2708	2871
60°	2275	2650	2642
65°	2171	2537	2315
70°	2014	2312	2002
75°	1827	2016	1654
80°	1455	1596	1221
85°	1028	889	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.4
10°-20°	299.7	9.8
20°-30°	452.0	14.7
30°-40°	541.7	17.6
40°-50°	562.2	18.3
50°-60°	507.1	16.5
60°-70°	369.9	12.0
70°-80°	194.1	6.3
80°-90°	41.4	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°	856.6	27.9
0°-40°	1398.4	45.5
0°-60°	2467.6	80.3
0°-90°	3073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1107	1104	1100	1107	1107	105
15°	1057	1057	1057	1070	1070	298
25°	960	965	977	998	1003	443
35°	829	838	864	895	904	518
45°	674	688	727	771	786	520
55°	506	524	577	615	612	453
65°	341	361	398	383	364	337
75°	176	200	194	168	159	184
85°	33	41	29	24	23	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.0	1109.0	1109.0	1109.0	1109.0
2.5°	1112.0	1109.0	1102.9	1109.0	1109.0
5°	1107.4	1104.4	1099.9	1107.4	1107.4
7.5°	1099.9	1096.8	1093.8	1101.4	1099.9
10°	1087.7	1086.2	1084.7	1093.8	1093.8
12.5°	1074.1	1074.1	1072.6	1083.2	1081.7
15°	1057.4	1057.4	1057.4	1069.6	1069.6
17.5°	1036.2	1039.3	1042.3	1055.9	1055.9
20°	1013.5	1016.5	1022.6	1039.3	1040.8
22.5°	990.8	992.3	998.4	1018.1	1022.6
25°	960.5	965.0	977.2	998.4	1002.9
27.5°	936.3	937.8	951.4	975.6	981.7
30°	898.4	909.0	922.6	949.9	955.9
32.5°	863.5	872.6	893.8	922.6	931.7
35°	828.7	837.8	863.5	895.3	904.4
37.5°	789.3	802.9	833.2	865.0	875.7
40°	752.9	765.1	796.9	836.3	848.4
42.5°	713.6	725.7	760.5	804.4	818.1
45°	674.2	687.8	727.2	771.1	786.3
47.5°	633.3	648.4	689.3	737.8	751.4
50°	590.8	607.5	653.0	702.9	709.0
52.5°	548.4	566.6	615.1	659.0	665.1
55°	506.0	524.2	577.2	615.1	612.0
57.5°	465.1	484.8	539.3	559.0	556.0
60°	422.7	443.9	492.4	501.5	490.9
62.5°	383.3	403.0	448.4	440.9	427.2
65°	340.9	360.6	398.4	383.3	363.6
67.5°	298.4	322.7	346.9	321.2	306.0
70°	256.0	283.3	293.9	268.1	254.5
72.5°	215.1	243.9	240.9	215.1	206.0
75°	175.7	200.0	193.9	168.2	159.1
77.5°	133.3	160.6	147.0	125.7	118.2
80°	93.9	118.2	103.0	84.8	78.8
82.5°	62.1	78.8	63.6	50.0	45.4
85°	33.3	40.9	28.8	24.2	22.7
87.5°	13.6	12.1	10.6	10.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)