

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: P259161

Luminaire Tested: **14CZ-LD5-20-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259161
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1282.0 lumens
Efficiency: N/A
Efficacy: 81.1 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

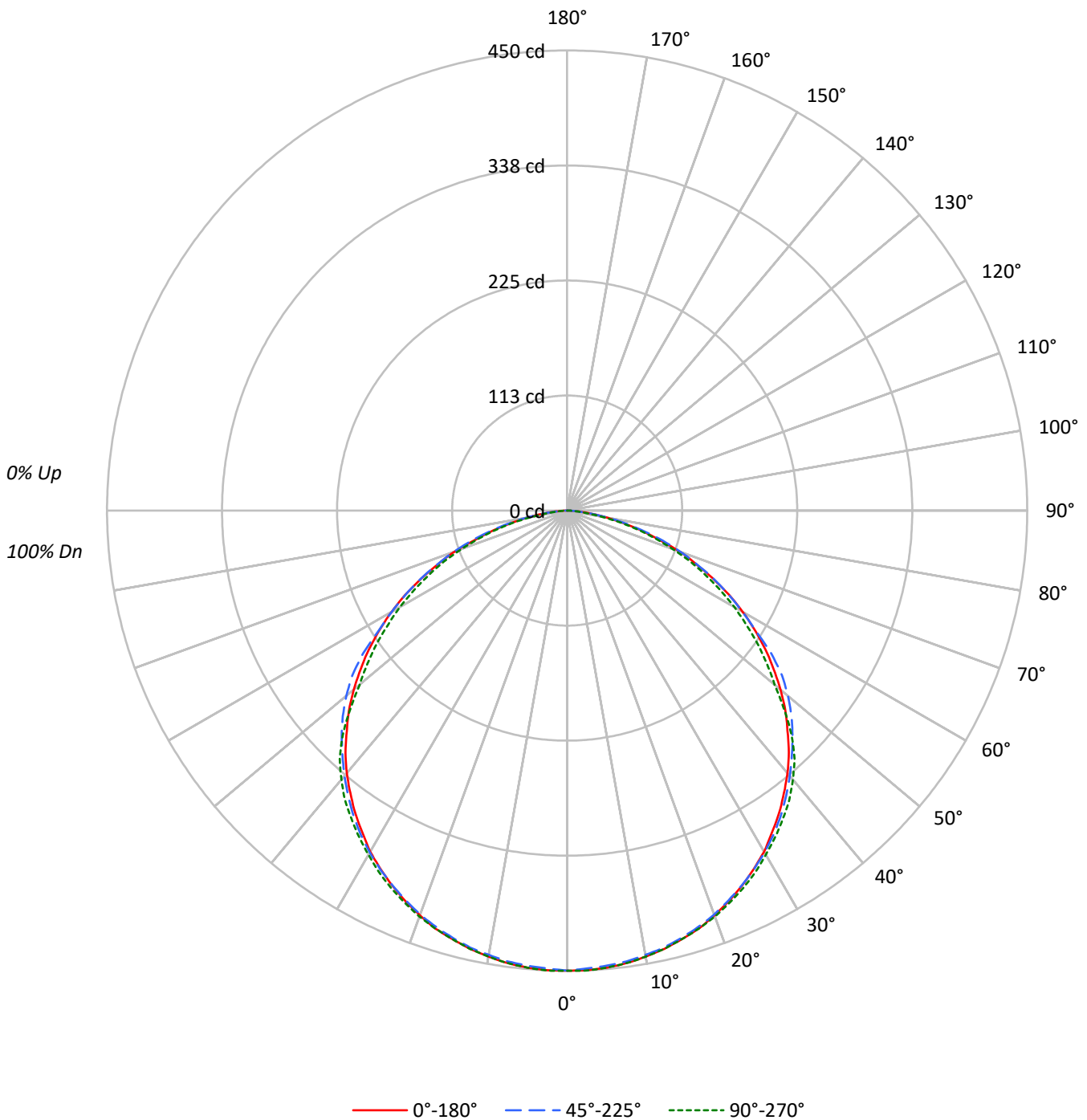
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1211	1211	1211
5°	1212	1207	1212
10°	1210	1206	1210
15°	1209	1205	1209
20°	1206	1204	1210
25°	1202	1200	1209
30°	1197	1199	1207
35°	1187	1197	1208
40°	1177	1190	1207
45°	1160	1187	1182
50°	1140	1180	1109
55°	1110	1143	1067
60°	1068	1066	1017
65°	1001	1007	951
70°	919	929	861
75°	773	808	736
80°	612	626	518
85°	401	349	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.3
10°-20°	122.5	9.6
20°-30°	187.0	14.6
30°-40°	228.1	17.8
40°-50°	238.6	18.6
50°-60°	211.2	16.5
60°-70°	155.5	12.1
70°-80°	80.5	6.3
80°-90°	16.0	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°	352.0	27.5
0°-40°	580.2	45.3
0°-60°	1029.9	80.3
0°-90°	1282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	449	449	447	449	449	43
15°	434	434	432	434	434	123
25°	405	405	404	407	407	187
35°	361	362	364	368	368	226
45°	305	307	312	314	310	235
55°	237	241	244	231	228	211
65°	157	167	158	152	149	156
75°	74	80	78	73	71	79
85°	13	14	11	10	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	449.9	449.9	449.9	449.9	449.9
2.5°	449.9	449.9	448.1	449.9	450.3
5°	448.6	448.6	446.8	448.6	448.6
7.5°	446.4	446.0	444.7	446.4	446.4
10°	442.9	442.9	441.2	443.4	442.9
12.5°	439.0	438.6	437.7	439.5	439.0
15°	433.8	433.8	432.5	434.2	433.8
17.5°	428.6	428.2	426.9	428.6	428.6
20°	421.2	420.8	420.3	422.1	422.5
22.5°	413.4	413.0	412.5	415.1	415.1
25°	404.7	404.7	404.3	406.9	407.3
27.5°	395.2	395.2	395.6	399.1	398.6
30°	385.2	385.2	386.0	388.6	388.6
32.5°	373.0	373.9	375.6	378.7	378.7
35°	361.3	362.2	364.3	367.8	367.8
37.5°	348.3	349.6	351.7	356.1	356.9
40°	335.2	336.1	338.7	343.5	343.5
42.5°	320.9	321.8	325.2	330.0	329.2
45°	304.8	307.4	311.8	314.4	310.5
47.5°	289.6	291.4	297.5	294.4	287.9
50°	272.3	275.7	281.8	271.0	264.9
52.5°	254.5	258.4	264.9	249.7	246.2
55°	236.7	241.4	243.6	231.0	227.5
57.5°	217.6	222.8	218.4	211.0	207.6
60°	198.4	204.5	198.0	191.1	188.9
62.5°	178.5	185.4	178.0	172.0	168.9
65°	157.2	166.7	158.1	152.0	149.4
67.5°	136.4	146.3	137.2	132.0	130.3
70°	116.8	122.5	118.1	112.9	109.4
72.5°	93.4	99.0	98.1	92.5	90.3
75°	74.3	79.5	77.7	73.0	70.8
77.5°	55.1	60.8	59.1	53.4	52.5
80°	39.5	43.4	40.4	35.2	33.4
82.5°	24.8	27.8	23.9	20.0	19.1
85°	13.0	13.9	11.3	10.0	9.6
87.5°	4.3	4.8	4.8	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)