

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: P258770

Luminaire Tested: **14CZ-LD5-20-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258770
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-LD5-20-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2236.0 lumens
Efficiency: N/A
Efficacy: 141.4 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

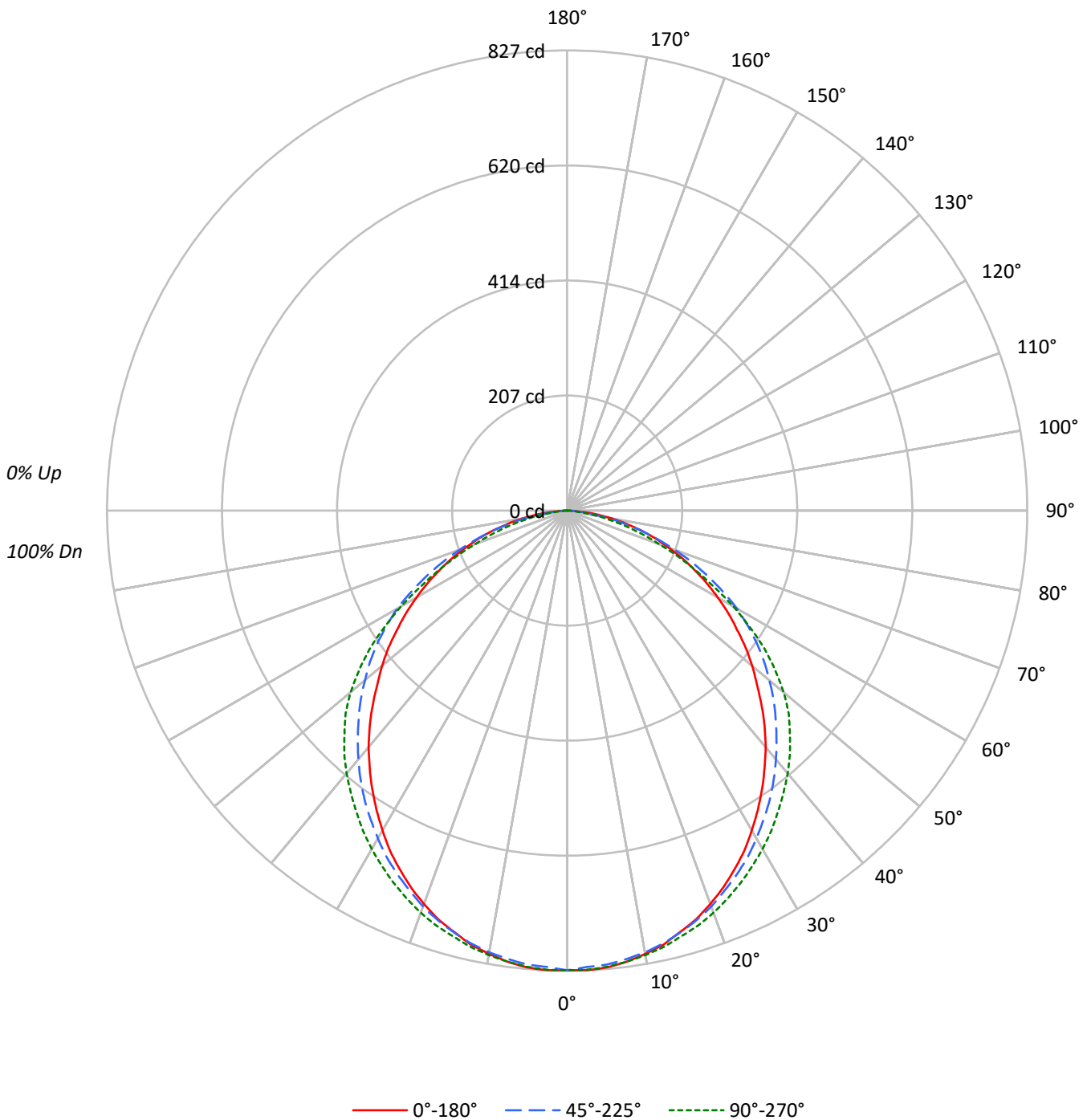
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2223	2223	2223
5°	2226	2212	2223
10°	2211	2203	2216
15°	2184	2187	2207
20°	2154	2168	2203
25°	2112	2142	2192
30°	2062	2115	2183
35°	2007	2085	2170
40°	1950	2051	2166
45°	1881	2017	2154
50°	1819	1986	2127
55°	1748	1954	2033
60°	1684	1898	1855
65°	1612	1777	1631
70°	1521	1614	1380
75°	1419	1398	1140
80°	1251	1080	834
85°	985	522	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.5
10°-20°	222.3	9.9
20°-30°	333.7	14.9
30°-40°	397.8	17.8
40°-50°	409.8	18.3
50°-60°	365.2	16.3
60°-70°	263.1	11.8
70°-80°	137.6	6.2
80°-90°	28.5	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°	634.1	28.4
0°-40°	1031.9	46.1
0°-60°	1806.8	80.8
0°-90°	2236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	824	822	819	824	823	78
15°	784	785	785	793	792	221
25°	711	715	721	735	738	328
35°	611	619	635	656	661	382
45°	494	505	530	560	566	381
55°	373	385	416	435	433	334
65°	253	262	279	266	256	251
75°	136	144	134	117	110	145
85°	32	28	17	15	15	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.0	826.0	826.0	826.0	826.0
2.5°	827.0	825.0	821.0	826.0	826.0
5°	824.0	822.0	819.0	824.0	823.0
7.5°	818.0	816.0	813.0	819.0	818.0
10°	809.0	808.0	806.1	812.0	811.0
12.5°	799.1	798.1	797.1	803.1	803.1
15°	784.1	785.1	785.1	793.1	792.1
17.5°	770.2	771.2	772.2	782.1	782.1
20°	752.2	753.2	757.2	768.2	769.2
22.5°	733.3	734.3	739.3	752.2	754.2
25°	711.4	715.4	721.4	735.3	738.3
27.5°	689.5	692.5	702.4	718.4	720.4
30°	663.6	669.6	680.5	698.4	702.4
32.5°	637.7	644.6	657.6	677.5	682.5
35°	610.8	618.7	634.7	655.6	660.6
37.5°	582.9	589.8	609.8	631.7	638.7
40°	555.0	561.9	583.9	608.8	616.7
42.5°	525.1	535.0	557.0	584.9	592.8
45°	494.2	505.2	530.1	560.0	565.9
47.5°	462.3	474.3	503.2	533.1	540.0
50°	434.4	445.4	474.3	503.2	508.1
52.5°	404.5	414.5	446.4	470.3	471.3
55°	372.6	384.6	416.5	435.4	433.4
57.5°	343.7	353.7	384.6	394.6	388.6
60°	312.9	321.8	352.7	353.7	344.7
62.5°	283.0	291.9	315.8	308.9	297.9
65°	253.1	262.0	279.0	266.0	256.1
67.5°	224.2	232.2	242.1	225.2	215.2
70°	193.3	204.3	205.2	185.3	175.4
72.5°	166.4	172.4	170.4	151.4	142.5
75°	136.5	143.5	134.5	116.6	109.6
77.5°	108.6	113.6	101.6	84.7	79.7
80°	80.7	83.7	69.7	56.8	53.8
82.5°	54.8	54.8	39.9	30.9	27.9
85°	31.9	27.9	16.9	14.9	14.9
87.5°	11.0	7.0	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)