

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: P258604

Luminaire Tested: **14CZ-LD5-20-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258604
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-LD5-20-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: 2203.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

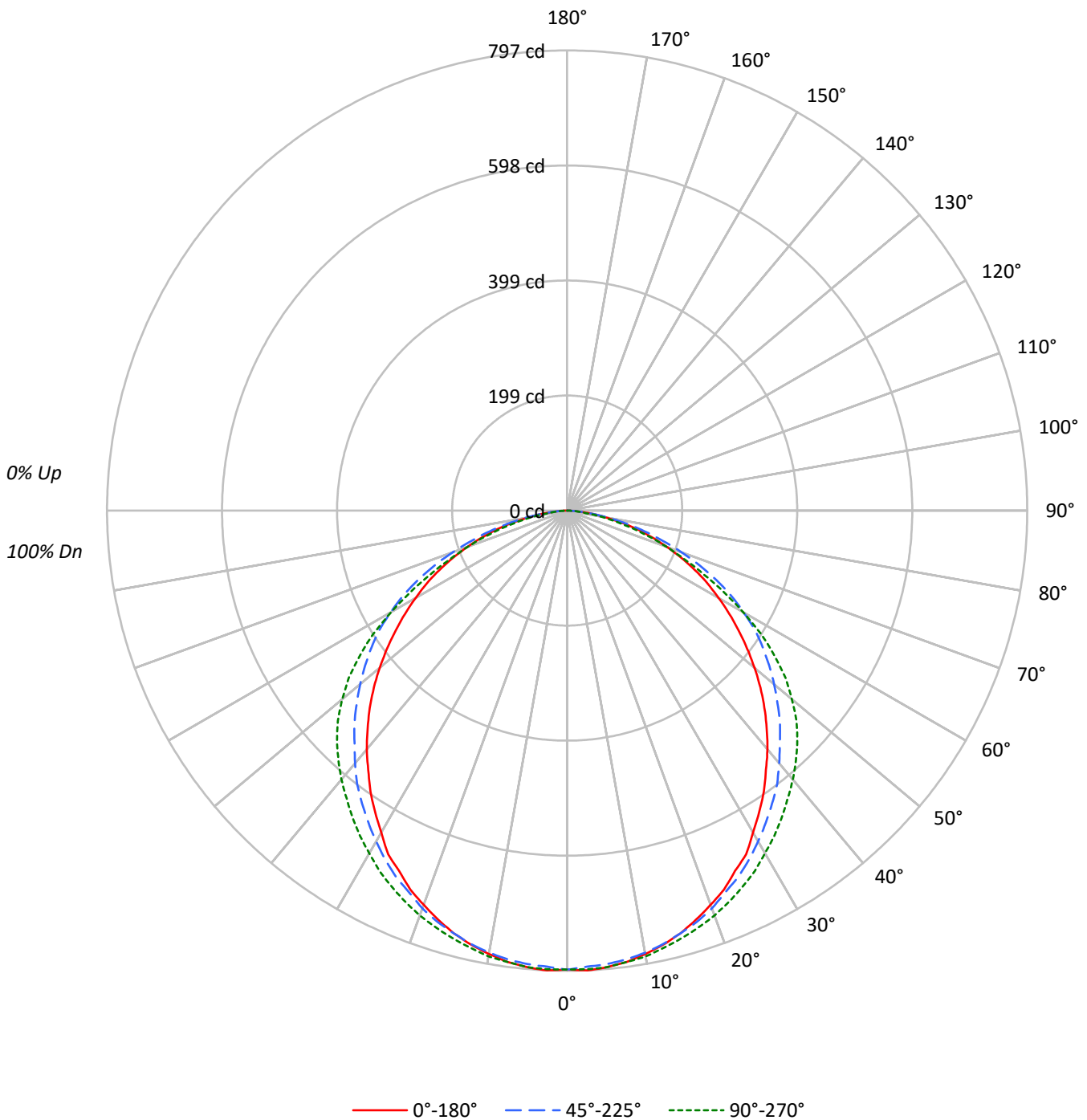
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2139	2139	2139
5°	2145	2130	2145
10°	2131	2125	2143
15°	2112	2112	2136
20°	2081	2099	2137
25°	2045	2080	2135
30°	2001	2055	2129
35°	1952	2034	2130
40°	1896	2007	2136
45°	1839	1984	2145
50°	1773	1960	2128
55°	1702	1941	2059
60°	1631	1900	1894
65°	1556	1819	1660
70°	1444	1658	1436
75°	1310	1445	1185
80°	1043	1145	876
85°	738	636	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.4
10°-20°	214.9	9.8
20°-30°	324.0	14.7
30°-40°	388.4	17.6
40°-50°	403.0	18.3
50°-60°	363.5	16.5
60°-70°	265.2	12.0
70°-80°	139.1	6.3
80°-90°	29.7	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°	614.1	27.9
0°-40°	1002.5	45.5
0°-60°	1769.0	80.3
0°-90°	2203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	794	792	788	794	794	75
15°	758	758	758	767	767	214
25°	689	692	700	716	719	318
35°	594	601	619	642	648	371
45°	483	493	521	553	564	373
55°	363	376	414	441	439	325
65°	244	258	286	275	261	242
75°	126	143	139	121	114	132
85°	24	29	21	17	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.0	795.0	795.0	795.0	795.0
2.5°	797.2	795.0	790.7	795.0	795.0
5°	793.9	791.7	788.5	793.9	793.9
7.5°	788.5	786.3	784.1	789.6	788.5
10°	779.8	778.7	777.6	784.1	784.1
12.5°	770.0	770.0	768.9	776.5	775.5
15°	758.1	758.1	758.1	766.8	766.8
17.5°	742.9	745.0	747.2	757.0	757.0
20°	726.6	728.8	733.1	745.0	746.1
22.5°	710.3	711.4	715.7	729.8	733.1
25°	688.6	691.8	700.5	715.7	719.0
27.5°	671.2	672.3	682.0	699.4	703.8
30°	644.0	651.6	661.4	681.0	685.3
32.5°	619.1	625.6	640.8	661.4	667.9
35°	594.1	600.6	619.1	641.9	648.4
37.5°	565.8	575.6	597.3	620.1	627.7
40°	539.8	548.5	571.3	599.5	608.2
42.5°	511.5	520.2	545.2	576.7	586.5
45°	483.3	493.1	521.3	552.8	563.7
47.5°	454.0	464.8	494.2	528.9	538.7
50°	423.6	435.5	468.1	503.9	508.3
52.5°	393.2	406.2	440.9	472.4	476.8
55°	362.7	375.8	413.8	440.9	438.8
57.5°	333.4	347.5	386.6	400.8	398.6
60°	303.0	318.2	353.0	359.5	351.9
62.5°	274.8	288.9	321.5	316.0	306.3
65°	244.4	258.5	285.6	274.8	260.7
67.5°	214.0	231.3	248.7	230.2	219.4
70°	183.5	203.1	210.7	192.2	182.5
72.5°	154.2	174.9	172.7	154.2	147.7
75°	126.0	143.4	139.0	120.6	114.0
77.5°	95.6	115.1	105.3	90.1	84.7
80°	67.3	84.7	73.9	60.8	56.5
82.5°	44.5	56.5	45.6	35.8	32.6
85°	23.9	29.3	20.6	17.4	16.3
87.5°	9.8	8.7	7.6	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)