

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: P#

Luminaire Tested: **14CZ-LD5-20-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
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-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1947.2 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

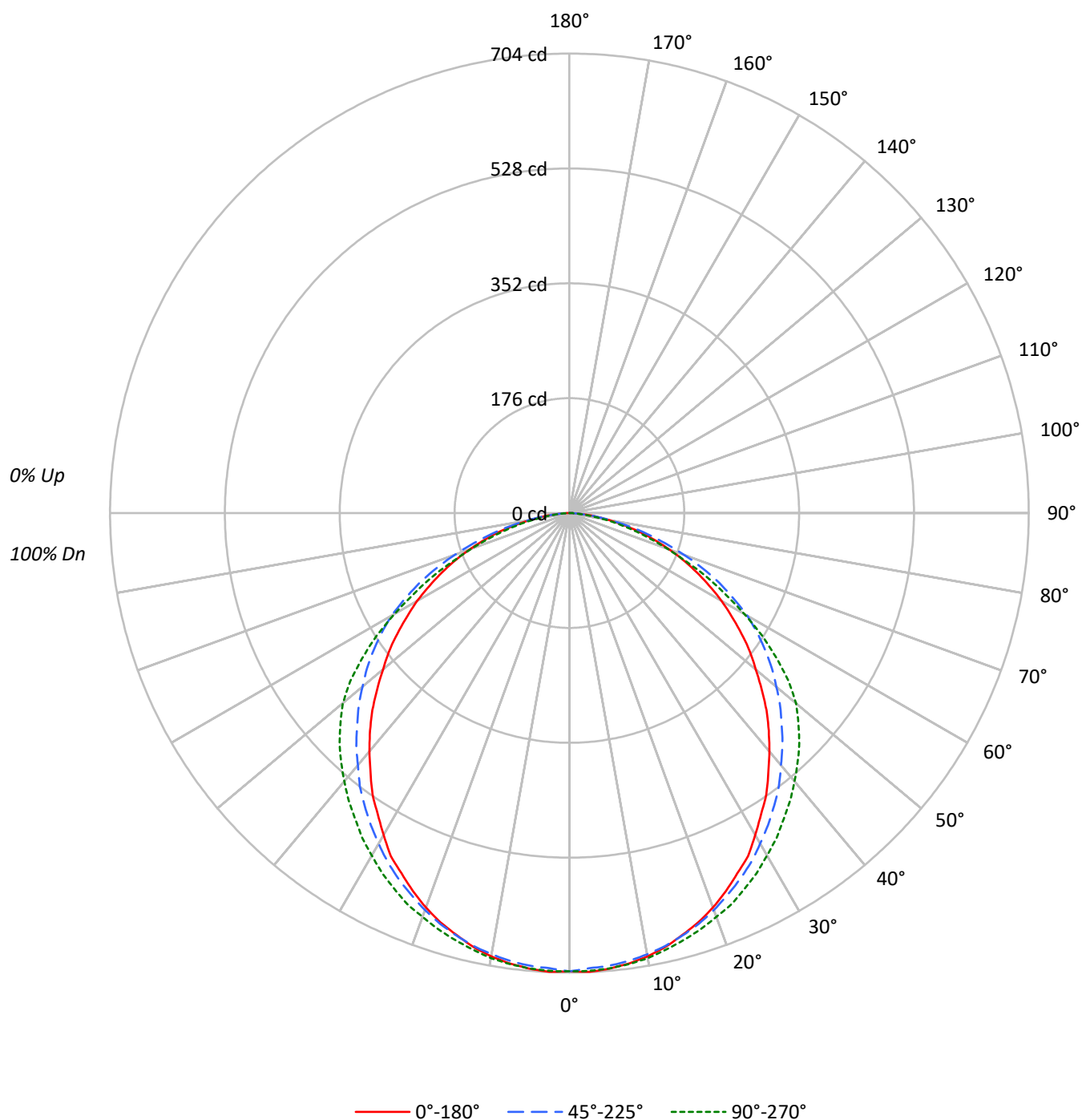
Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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°	1889	1889	1889
5°	1889	1866	1875
10°	1876	1847	1859
15°	1852	1823	1837
20°	1825	1796	1819
25°	1787	1765	1802
30°	1744	1729	1780
35°	1699	1693	1757
40°	1641	1649	1740
45°	1585	1609	1724
50°	1516	1568	1695
55°	1458	1526	1590
60°	1391	1469	1420
65°	1303	1356	1221
70°	1199	1179	983
75°	1057	961	765
80°	814	668	511
85°	514	286	195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.4
10°-20°	189.8	9.7
20°-30°	286.3	14.7
30°-40°	343.3	17.6
40°-50°	356.3	18.3
50°-60°	321.6	16.5
60°-70°	234.3	12.0
70°-80°	122.9	6.3
80°-90°	26.3	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°	542.6	27.9
0°-40°	885.9	45.5
0°-60°	1563.8	80.3
0°-90°	1947.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1947.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	701	699	696	701	700	67
15°	669	669	670	678	677	189
25°	609	612	619	632	635	281
35°	526	531	547	568	572	328
45°	427	436	460	489	498	329
55°	322	333	366	388	387	288
65°	216	229	253	242	233	213
75°	111	127	123	106	101	117
85°	21	26	19	14	14	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	703.6	701.7	698.0	702.6	702.1
5°	700.8	699.4	696.2	700.8	700.3
7.5°	696.2	695.2	692.4	697.5	697.0
10°	689.6	688.2	686.4	691.9	692.4
12.5°	680.8	680.3	679.3	685.4	684.9
15°	669.1	669.1	670.0	677.5	677.1
17.5°	657.5	657.5	659.8	668.2	668.6
20°	643.1	644.0	647.2	657.5	658.4
22.5°	626.7	627.7	633.3	646.3	648.7
25°	609.0	612.3	618.8	632.3	635.2
27.5°	592.7	593.2	603.0	617.9	621.6
30°	569.4	576.0	584.8	602.1	605.8
32.5°	546.6	553.2	566.7	585.3	590.4
35°	526.2	531.2	547.1	567.6	572.3
37.5°	500.6	508.9	527.5	549.0	555.5
40°	476.8	484.2	504.3	528.5	536.8
42.5°	452.1	460.5	483.4	509.4	517.8
45°	427.0	436.3	460.1	488.9	498.2
47.5°	399.5	411.2	438.1	467.5	475.9
50°	373.0	385.0	413.9	444.7	453.1
52.5°	348.7	359.5	391.1	419.5	423.2
55°	321.8	333.0	366.4	388.4	387.4
57.5°	294.8	307.3	340.9	354.3	350.6
60°	269.6	281.2	314.7	317.6	309.6
62.5°	241.7	255.2	283.6	279.4	269.6
65°	215.6	228.7	253.3	241.7	232.8
67.5°	189.0	203.0	220.7	203.5	193.2
70°	162.9	179.7	186.3	167.7	159.2
72.5°	136.4	154.1	153.6	135.9	129.0
75°	111.2	127.1	122.9	106.2	101.1
77.5°	84.7	100.6	92.6	80.1	75.4
80°	60.0	75.0	64.7	54.9	51.7
82.5°	40.9	49.8	40.5	32.1	30.7
85°	21.4	25.6	18.6	14.4	13.5
87.5°	7.9	7.4	6.6	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)