

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-L840-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-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2109.9 lumens
Efficiency: N/A
Efficacy: 129.4 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

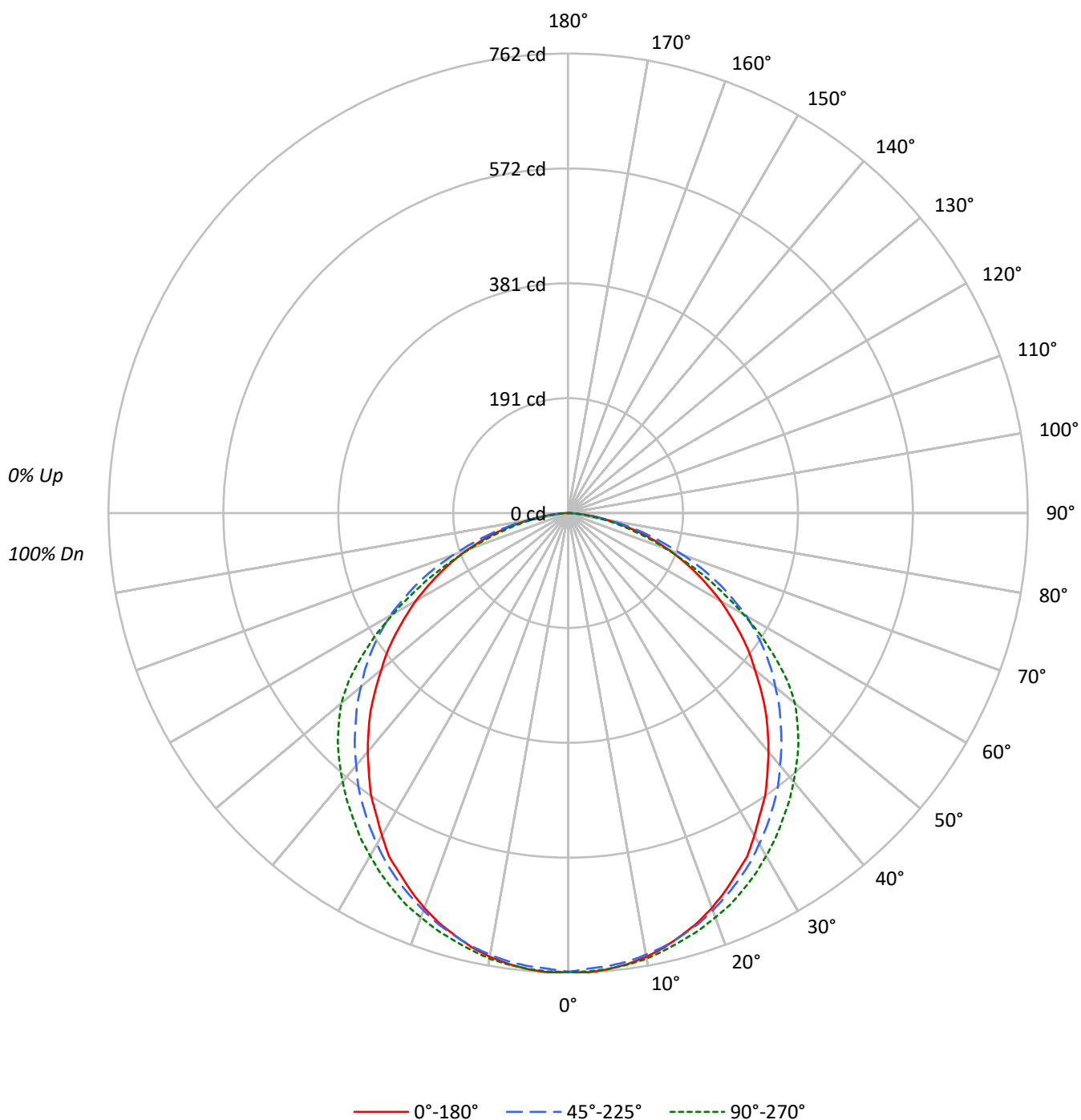
Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2048	2048	2048
5°	2047	2022	2032
10°	2033	2001	2015
15°	2006	1976	1990
20°	1977	1946	1971
25°	1937	1912	1952
30°	1890	1873	1928
35°	1841	1834	1904
40°	1778	1787	1885
45°	1718	1743	1868
50°	1643	1699	1836
55°	1579	1654	1723
60°	1507	1592	1539
65°	1412	1469	1323
70°	1300	1278	1065
75°	1147	1041	829
80°	884	724	554
85°	557	310	210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.4
10°-20°	205.6	9.7
20°-30°	310.3	14.7
30°-40°	372.0	17.6
40°-50°	386.1	18.3
50°-60°	348.5	16.5
60°-70°	253.8	12.0
70°-80°	133.1	6.3
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°	587.9	27.9
0°-40°	959.9	45.5
0°-60°	1694.5	80.3
0°-90°	2109.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	759	758	754	759	759	72
15°	725	725	726	734	734	205
25°	660	664	670	685	688	304
35°	570	576	593	615	620	356
45°	463	473	498	530	540	356
55°	349	361	397	421	420	312
65°	234	248	274	262	252	231
75°	121	138	133	115	110	127
85°	23	28	20	16	15	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	760.9	760.9	760.9	760.9	760.9
2.5°	762.4	760.3	756.3	761.4	760.9
5°	759.3	757.8	754.3	759.3	758.8
7.5°	754.3	753.3	750.3	755.8	755.3
10°	747.2	745.7	743.7	749.8	750.3
12.5°	737.6	737.1	736.1	742.7	742.2
15°	725.0	725.0	726.0	734.1	733.6
17.5°	712.4	712.4	714.9	724.0	724.5
20°	696.8	697.8	701.3	712.4	713.4
22.5°	679.1	680.1	686.2	700.3	702.8
25°	659.9	663.5	670.5	685.2	688.2
27.5°	642.3	642.8	653.4	669.5	673.6
30°	617.1	624.1	633.7	652.4	656.4
32.5°	592.3	599.4	614.0	634.2	639.8
35°	570.1	575.7	592.8	615.0	620.1
37.5°	542.4	551.5	571.6	594.9	601.9
40°	516.7	524.7	546.4	572.7	581.7
42.5°	489.9	499.0	523.7	552.0	561.1
45°	462.7	472.8	498.5	529.8	539.9
47.5°	432.9	445.5	474.8	506.6	515.6
50°	404.1	417.3	448.5	481.8	490.9
52.5°	377.9	389.5	423.8	454.6	458.6
55°	348.6	360.7	397.1	420.8	419.8
57.5°	319.4	333.0	369.3	384.0	379.9
60°	292.1	304.7	341.1	344.1	335.5
62.5°	261.9	276.5	307.3	302.7	292.1
65°	233.6	247.7	274.5	261.9	252.3
67.5°	204.8	220.0	239.2	220.5	209.4
70°	176.6	194.8	201.8	181.6	172.6
72.5°	147.8	167.0	166.5	147.3	139.8
75°	120.6	137.7	133.2	115.0	109.5
77.5°	91.8	109.0	100.4	86.8	81.7
80°	65.1	81.2	70.1	59.5	56.0
82.5°	44.4	54.0	43.9	34.8	33.3
85°	23.2	27.7	20.2	15.6	14.6
87.5°	8.6	8.1	7.1	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)