

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: P258537

Luminaire Tested: **14CZ-LD5-20-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258537
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-L83050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2108.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

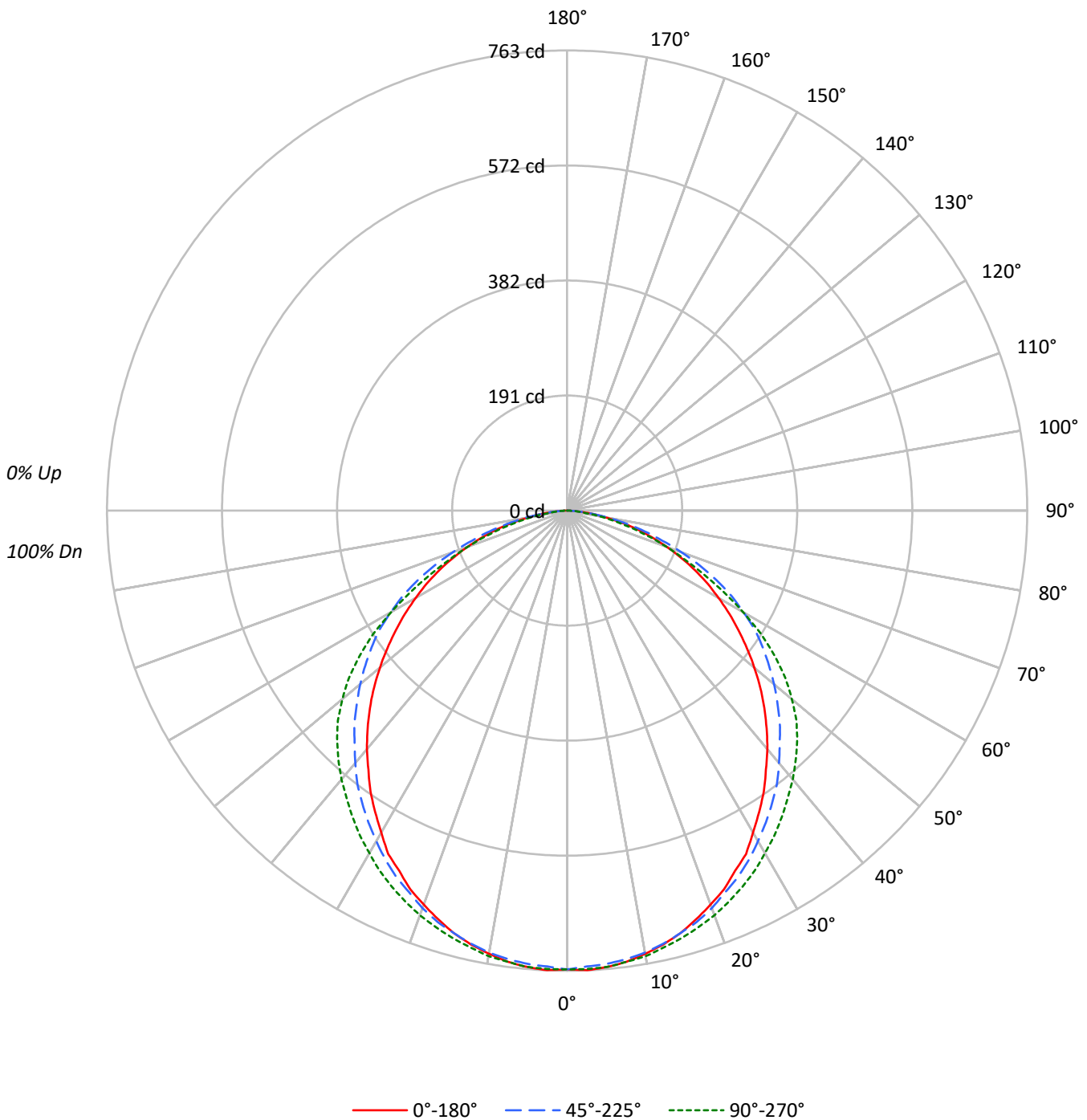
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2047	2047	2047
5°	2052	2038	2052
10°	2039	2033	2050
15°	2021	2021	2044
20°	1991	2009	2045
25°	1956	1990	2043
30°	1915	1967	2038
35°	1868	1946	2038
40°	1814	1920	2044
45°	1760	1898	2053
50°	1697	1875	2036
55°	1628	1857	1970
60°	1560	1818	1812
65°	1489	1740	1588
70°	1382	1586	1374
75°	1254	1383	1134
80°	998	1096	837
85°	707	608	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.4
10°-20°	205.6	9.8
20°-30°	310.0	14.7
30°-40°	371.6	17.6
40°-50°	385.7	18.3
50°-60°	347.8	16.5
60°-70°	253.7	12.0
70°-80°	133.1	6.3
80°-90°	28.4	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°	587.6	27.9
0°-40°	959.3	45.5
0°-60°	1692.8	80.3
0°-90°	2108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	760	758	754	760	760	72
15°	725	725	725	734	734	204
25°	659	662	670	685	688	304
35°	568	575	592	614	620	355
45°	462	472	499	529	539	356
55°	347	360	396	422	420	311
65°	234	247	273	263	249	231
75°	121	137	133	115	109	126
85°	23	28	20	17	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	760.7	760.7	760.7	760.7	760.7
2.5°	762.8	760.7	756.6	760.7	760.7
5°	759.7	757.6	754.5	759.7	759.7
7.5°	754.5	752.4	750.3	755.5	754.5
10°	746.2	745.1	744.1	750.3	750.3
12.5°	736.8	736.8	735.8	743.1	742.0
15°	725.4	725.4	725.4	733.7	733.7
17.5°	710.8	712.9	715.0	724.3	724.3
20°	695.2	697.3	701.5	712.9	714.0
22.5°	679.7	680.7	684.9	698.4	701.5
25°	658.9	662.0	670.3	684.9	688.0
27.5°	642.2	643.3	652.6	669.3	673.4
30°	616.3	623.5	632.9	651.6	655.8
32.5°	592.4	598.6	613.1	632.9	639.1
35°	568.5	574.7	592.4	614.2	620.4
37.5°	541.4	550.8	571.6	593.4	600.7
40°	516.5	524.8	546.6	573.7	582.0
42.5°	489.5	497.8	521.7	551.8	561.2
45°	462.5	471.8	498.8	529.0	539.4
47.5°	434.4	444.8	472.9	506.1	515.5
50°	405.3	416.7	447.9	482.2	486.4
52.5°	376.2	388.7	421.9	452.1	456.2
55°	347.1	359.6	395.9	421.9	419.8
57.5°	319.0	332.6	370.0	383.5	381.4
60°	289.9	304.5	337.8	344.0	336.7
62.5°	262.9	276.4	307.6	302.4	293.1
65°	233.8	247.3	273.3	262.9	249.4
67.5°	204.7	221.4	238.0	220.3	209.9
70°	175.6	194.3	201.6	183.9	174.6
72.5°	147.6	167.3	165.2	147.6	141.3
75°	120.6	137.2	133.0	115.4	109.1
77.5°	91.5	110.2	100.8	86.3	81.1
80°	64.4	81.1	70.7	58.2	54.0
82.5°	42.6	54.0	43.6	34.3	31.2
85°	22.9	28.1	19.7	16.6	15.6
87.5°	9.4	8.3	7.3	7.3	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)