

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: P258602

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258602
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-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2192.0 lumens
Efficiency: N/A
Efficacy: 138.6 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

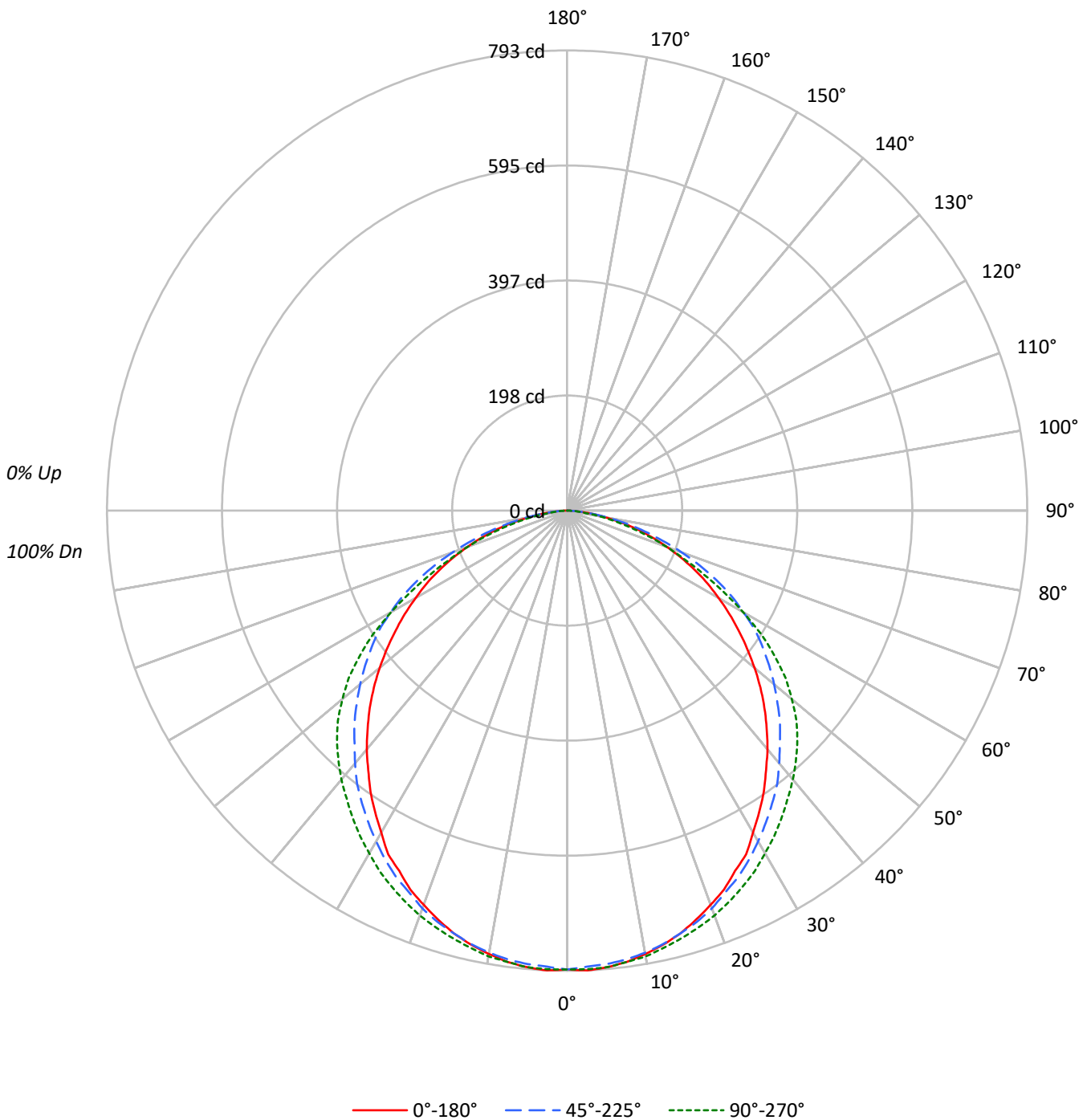
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2129	2129	2129
5°	2134	2119	2134
10°	2120	2114	2132
15°	2101	2101	2125
20°	2070	2089	2126
25°	2034	2070	2124
30°	1991	2045	2119
35°	1942	2024	2119
40°	1887	1997	2126
45°	1830	1974	2135
50°	1765	1950	2117
55°	1693	1932	2048
60°	1623	1890	1884
65°	1548	1810	1652
70°	1437	1649	1428
75°	1304	1438	1180
80°	1038	1139	871
85°	735	633	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.4
10°-20°	213.8	9.8
20°-30°	322.4	14.7
30°-40°	386.4	17.6
40°-50°	401.0	18.3
50°-60°	361.7	16.5
60°-70°	263.9	12.0
70°-80°	138.4	6.3
80°-90°	29.5	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°	611.0	27.9
0°-40°	997.5	45.5
0°-60°	1760.2	80.3
0°-90°	2192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	790	788	784	790	790	75
15°	754	754	754	763	763	212
25°	685	688	697	712	715	316
35°	591	598	616	639	645	369
45°	481	491	519	550	561	371
55°	361	374	412	439	437	323
65°	243	257	284	273	259	240
75°	125	143	138	120	114	131
85°	24	29	20	17	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.0	791.0	791.0	791.0	791.0
2.5°	793.2	791.0	786.7	791.0	791.0
5°	790.0	787.8	784.5	790.0	790.0
7.5°	784.5	782.4	780.2	785.6	784.5
10°	775.9	774.8	773.7	780.2	780.2
12.5°	766.2	766.2	765.1	772.7	771.6
15°	754.3	754.3	754.3	762.9	762.9
17.5°	739.2	741.3	743.5	753.2	753.2
20°	723.0	725.1	729.4	741.3	742.4
22.5°	706.7	707.8	712.1	726.2	729.4
25°	685.1	688.4	697.0	712.1	715.4
27.5°	667.8	668.9	678.6	695.9	700.3
30°	640.8	648.4	658.1	677.6	681.9
32.5°	616.0	622.5	637.6	658.1	664.6
35°	591.1	597.6	616.0	638.7	645.1
37.5°	563.0	572.7	594.4	617.0	624.6
40°	537.1	545.7	568.4	596.5	605.2
42.5°	509.0	517.6	542.5	573.8	583.5
45°	480.9	490.6	518.7	550.0	560.9
47.5°	451.7	462.5	491.7	526.3	536.0
50°	421.5	433.3	465.8	501.4	505.7
52.5°	391.2	404.2	438.7	470.1	474.4
55°	360.9	373.9	411.7	438.7	436.6
57.5°	331.8	345.8	384.7	398.8	396.6
60°	301.5	316.6	351.2	357.7	350.1
62.5°	273.4	287.5	319.9	314.5	304.7
65°	243.1	257.2	284.2	273.4	259.4
67.5°	212.9	230.2	247.5	229.1	218.3
70°	182.6	202.1	209.6	191.3	181.5
72.5°	153.5	174.0	171.8	153.5	147.0
75°	125.4	142.6	138.3	120.0	113.5
77.5°	95.1	114.5	104.8	89.7	84.3
80°	67.0	84.3	73.5	60.5	56.2
82.5°	44.3	56.2	45.4	35.7	32.4
85°	23.8	29.2	20.5	17.3	16.2
87.5°	9.7	8.6	7.6	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)