

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: P258766

Luminaire Tested: **14CZ-LD5-20-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
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-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

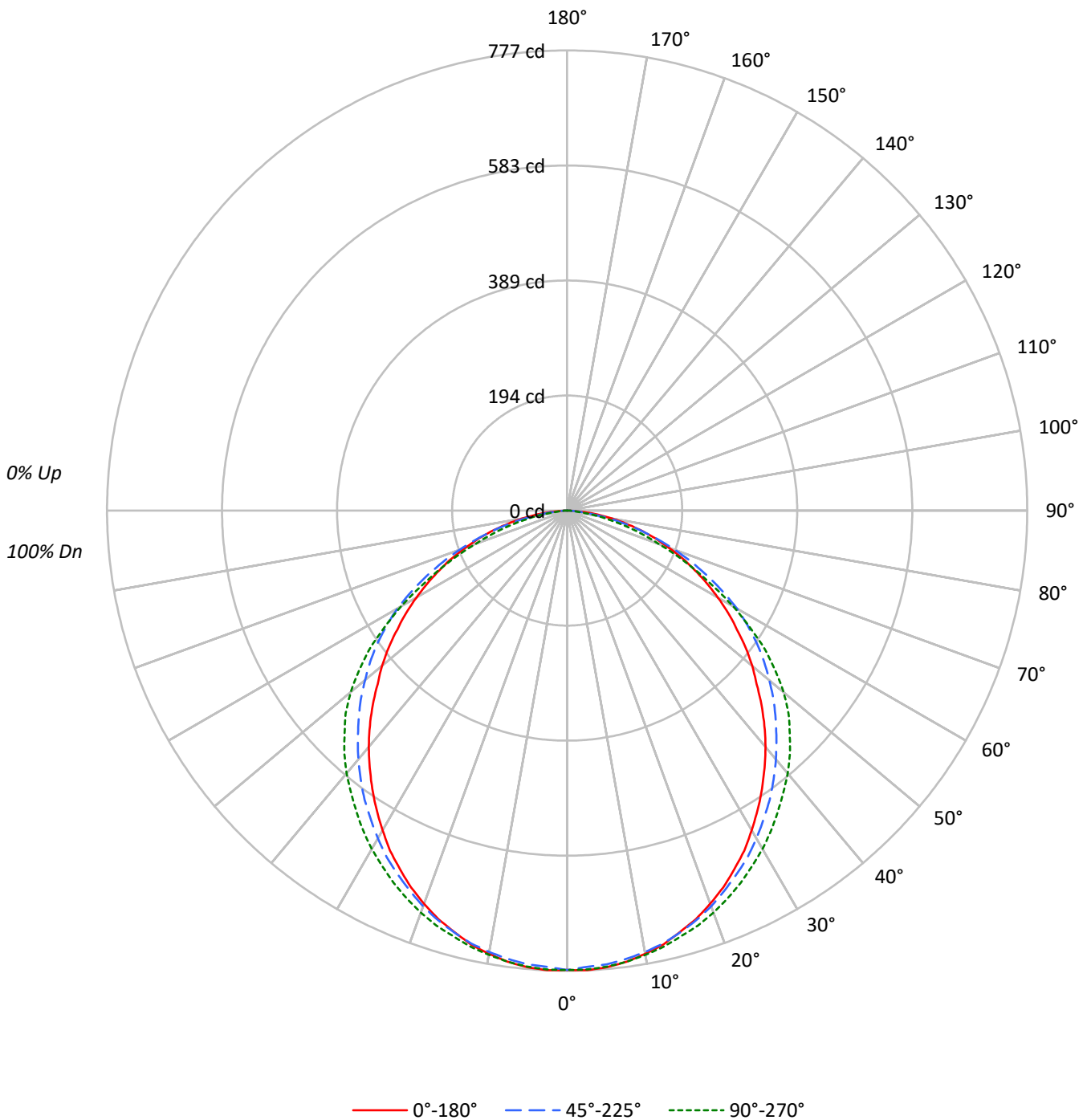
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2087	2087	2087
5°	2091	2078	2088
10°	2076	2068	2081
15°	2052	2054	2072
20°	2023	2037	2069
25°	1984	2012	2059
30°	1936	1986	2050
35°	1884	1958	2038
40°	1831	1926	2035
45°	1766	1894	2023
50°	1708	1865	1998
55°	1642	1835	1910
60°	1581	1783	1743
65°	1514	1668	1531
70°	1428	1517	1296
75°	1333	1313	1070
80°	1175	1015	783
85°	923	491	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	3.5
10°-20°	208.8	9.9
20°-30°	313.4	14.9
30°-40°	373.6	17.8
40°-50°	384.8	18.3
50°-60°	343.0	16.3
60°-70°	247.1	11.8
70°-80°	129.2	6.2
80°-90°	26.7	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°	595.5	28.4
0°-40°	969.1	46.1
0°-60°	1696.9	80.8
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	774	772	769	774	773	73
15°	736	737	737	745	744	208
25°	668	672	678	691	693	308
35°	574	581	596	616	620	359
45°	464	474	498	526	532	358
55°	350	361	391	409	407	314
65°	238	246	262	250	240	235
75°	128	135	126	110	103	136
85°	30	26	16	14	14	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.7	775.7	775.7	775.7	775.7
2.5°	776.7	774.8	771.1	775.7	775.7
5°	773.9	772.0	769.2	773.9	772.9
7.5°	768.3	766.4	763.6	769.2	768.3
10°	759.8	758.9	757.0	762.6	761.7
12.5°	750.5	749.5	748.6	754.2	754.2
15°	736.4	737.4	737.4	744.9	743.9
17.5°	723.3	724.3	725.2	734.6	734.6
20°	706.5	707.4	711.2	721.5	722.4
22.5°	688.7	689.7	694.3	706.5	708.4
25°	668.1	671.9	677.5	690.6	693.4
27.5°	647.5	650.3	659.7	674.7	676.6
30°	623.2	628.8	639.1	656.0	659.7
32.5°	598.9	605.4	617.6	636.3	641.0
35°	573.6	581.1	596.1	615.7	620.4
37.5°	547.4	554.0	572.7	593.3	599.8
40°	521.2	527.8	548.4	571.7	579.2
42.5°	493.1	502.5	523.1	549.3	556.8
45°	464.1	474.4	497.8	525.9	531.5
47.5°	434.2	445.4	472.6	500.6	507.2
50°	408.0	418.3	445.4	472.6	477.2
52.5°	379.9	389.3	419.2	441.7	442.6
55°	350.0	361.2	391.1	408.9	407.1
57.5°	322.8	332.2	361.2	370.6	364.9
60°	293.8	302.2	331.3	332.2	323.8
62.5°	265.8	274.2	296.6	290.1	279.8
65°	237.7	246.1	262.0	249.8	240.5
67.5°	210.5	218.0	227.4	211.5	202.1
70°	181.5	191.8	192.8	174.1	164.7
72.5°	156.3	161.9	160.0	142.2	133.8
75°	128.2	134.7	126.3	109.5	102.9
77.5°	102.0	106.7	95.4	79.5	74.9
80°	75.8	78.6	65.5	53.3	50.5
82.5°	51.5	51.5	37.4	29.0	26.2
85°	29.9	26.2	15.9	14.0	14.0
87.5°	10.3	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)