

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: P258768

Luminaire Tested: **14CZ-LD5-20-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258768
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2184.0 lumens
Efficiency: N/A
Efficacy: 139.8 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

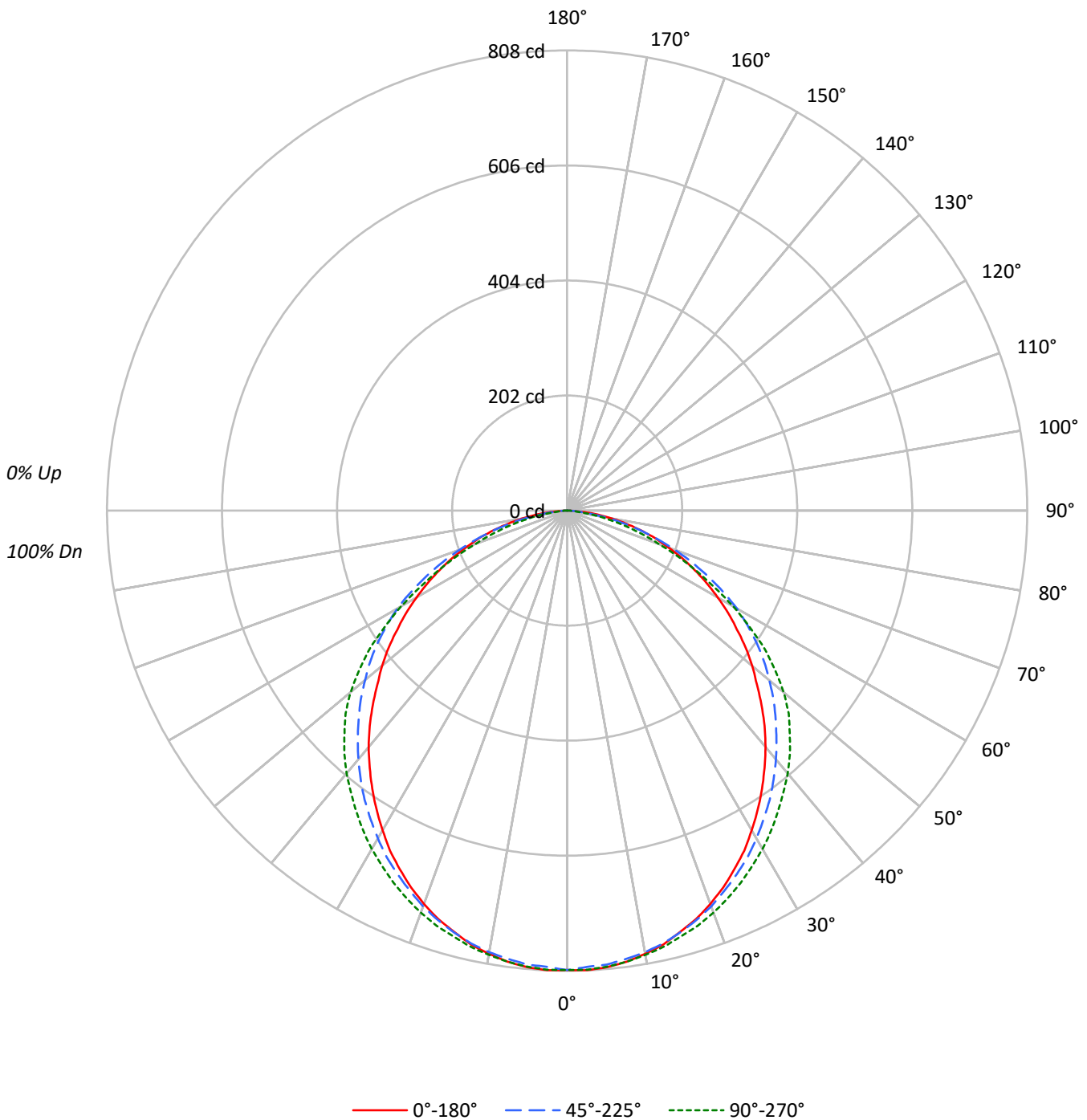
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2171	2171	2171
5°	2174	2161	2172
10°	2159	2151	2165
15°	2134	2137	2155
20°	2104	2118	2151
25°	2063	2092	2141
30°	2014	2065	2132
35°	1960	2036	2120
40°	1904	2003	2116
45°	1837	1970	2104
50°	1776	1939	2078
55°	1708	1909	1986
60°	1645	1854	1812
65°	1574	1735	1592
70°	1485	1578	1348
75°	1386	1366	1114
80°	1221	1055	815
85°	960	509	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.5
10°-20°	217.2	9.9
20°-30°	325.9	14.9
30°-40°	388.6	17.8
40°-50°	400.2	18.3
50°-60°	356.7	16.3
60°-70°	257.0	11.8
70°-80°	134.4	6.2
80°-90°	27.8	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°	619.3	28.4
0°-40°	1007.9	46.1
0°-60°	1764.8	80.8
0°-90°	2184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	805	803	800	805	804	76
15°	766	767	767	775	774	216
25°	695	699	705	718	721	320
35°	597	604	620	640	645	373
45°	483	493	518	547	553	372
55°	364	376	407	425	423	326
65°	247	256	272	260	250	245
75°	133	140	131	114	107	141
85°	31	27	16	15	15	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.8	806.8	806.8	806.8	806.8
2.5°	807.7	805.8	801.9	806.8	806.8
5°	804.8	802.9	800.0	804.8	803.9
7.5°	799.0	797.0	794.1	800.0	799.0
10°	790.2	789.3	787.3	793.1	792.2
12.5°	780.5	779.5	778.5	784.4	784.4
15°	765.9	766.9	766.9	774.7	773.7
17.5°	752.3	753.2	754.2	764.0	764.0
20°	734.8	735.7	739.6	750.3	751.3
22.5°	716.3	717.2	722.1	734.8	736.7
25°	694.9	698.7	704.6	718.2	721.1
27.5°	673.4	676.4	686.1	701.7	703.6
30°	648.1	654.0	664.7	682.2	686.1
32.5°	622.8	629.7	642.3	661.8	666.6
35°	596.6	604.3	619.9	640.4	645.2
37.5°	569.3	576.1	595.6	617.0	623.8
40°	542.1	548.9	570.3	594.6	602.4
42.5°	512.9	522.6	544.0	571.3	579.0
45°	482.7	493.4	517.7	546.9	552.8
47.5°	451.6	463.2	491.5	520.7	527.5
50°	424.3	435.0	463.2	491.5	496.3
52.5°	395.1	404.8	436.0	459.3	460.3
55°	364.0	375.6	406.8	425.3	423.3
57.5°	335.7	345.5	375.6	385.4	379.5
60°	305.6	314.3	344.5	345.5	336.7
62.5°	276.4	285.1	308.5	301.7	291.0
65°	247.2	255.9	272.5	259.8	250.1
67.5°	219.0	226.8	236.5	219.9	210.2
70°	188.8	199.5	200.5	181.0	171.3
72.5°	162.5	168.4	166.4	147.9	139.2
75°	133.3	140.1	131.4	113.9	107.1
77.5°	106.1	110.9	99.3	82.7	77.9
80°	78.8	81.7	68.1	55.5	52.6
82.5°	53.5	53.5	38.9	30.2	27.2
85°	31.1	27.2	16.5	14.6	14.6
87.5°	10.7	6.8	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)