

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: P258987

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1152.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

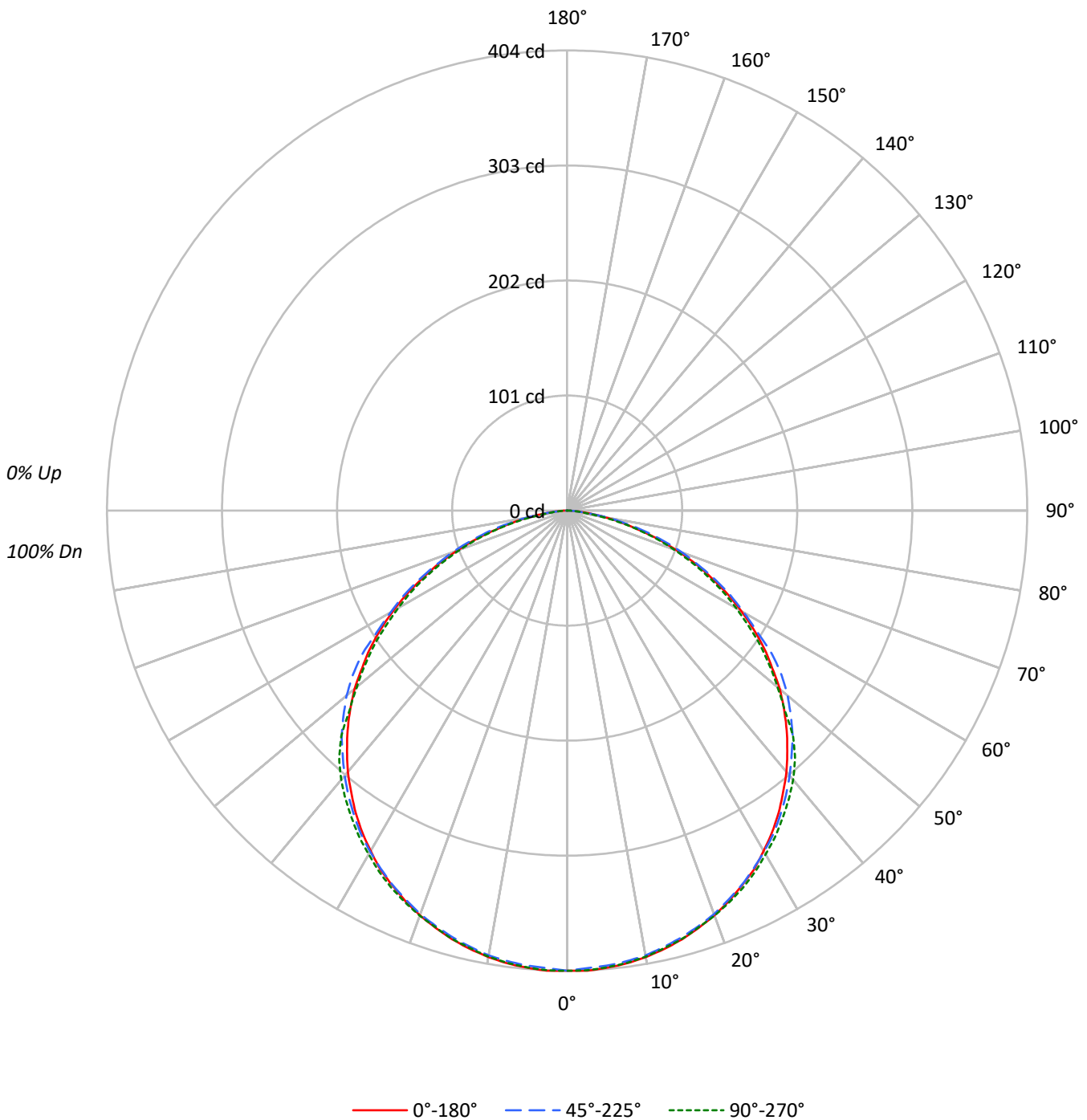
Input Watts (W): 15.159
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1087	1087	1087
5°	1088	1083	1087
10°	1088	1083	1086
15°	1086	1081	1085
20°	1083	1080	1084
25°	1078	1077	1085
30°	1072	1074	1083
35°	1063	1072	1083
40°	1052	1067	1084
45°	1037	1066	1067
50°	1020	1058	1009
55°	992	1031	973
60°	950	964	921
65°	890	913	865
70°	810	842	783
75°	676	738	663
80°	535	564	460
85°	349	303	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	3.3
10°-20°	109.9	9.5
20°-30°	167.7	14.6
30°-40°	204.5	17.7
40°-50°	214.1	18.6
50°-60°	190.5	16.5
60°-70°	140.5	12.2
70°-80°	72.6	6.3
80°-90°	14.1	1.2
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°	315.8	27.4
0°-40°	520.2	45.2
0°-60°	924.8	80.3
0°-90°	1152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	404	404	404	404	404	
5°	403	402	401	402	402	38
15°	390	389	388	389	389	110
25°	363	363	363	365	365	167
35°	324	324	326	330	330	202
45°	273	274	280	283	280	210
55°	211	216	220	210	207	188
65°	140	149	143	139	136	138
75°	65	72	71	65	64	70
85°	11	12	10	9	9	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	404.0	404.0	404.0	404.0	404.0
2.5°	404.4	404.0	402.1	404.0	404.0
5°	402.9	402.5	401.0	402.5	402.5
7.5°	401.0	400.6	399.1	400.6	400.6
10°	398.0	397.6	396.5	398.0	397.6
12.5°	394.2	394.2	392.4	394.2	393.5
15°	389.7	389.4	387.9	389.4	389.4
17.5°	384.1	383.7	382.6	384.5	383.7
20°	378.1	377.7	377.0	378.9	378.5
22.5°	371.0	371.0	369.8	372.1	372.1
25°	363.1	363.1	362.7	365.3	365.3
27.5°	355.2	354.4	354.4	357.1	357.5
30°	345.1	345.1	345.8	348.8	348.4
32.5°	334.9	335.3	336.8	339.4	339.8
35°	323.7	324.0	326.3	330.0	329.7
37.5°	311.6	312.8	315.4	319.5	319.5
40°	299.6	300.4	303.8	308.3	308.6
42.5°	286.1	288.0	291.7	297.0	296.2
45°	272.6	274.5	280.1	282.7	280.5
47.5°	258.3	260.6	266.2	266.6	259.1
50°	243.7	246.3	252.7	245.2	241.1
52.5°	226.8	231.7	237.3	226.8	224.2
55°	211.4	215.9	219.7	210.3	207.3
57.5°	194.1	200.1	197.5	193.0	189.2
60°	176.5	182.9	179.1	174.6	171.2
62.5°	158.5	165.6	161.8	157.3	154.3
65°	139.7	149.4	143.4	138.6	135.9
67.5°	122.0	131.4	124.3	120.5	117.9
70°	102.9	110.8	107.0	102.1	99.5
72.5°	84.1	90.1	89.0	83.7	81.9
75°	65.0	71.7	71.0	65.3	63.8
77.5°	48.8	55.2	52.9	48.4	46.6
80°	34.5	38.7	36.4	31.2	29.7
82.5°	21.0	24.4	20.7	17.6	16.1
85°	11.3	12.4	9.8	9.0	8.6
87.5°	4.1	4.1	4.1	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)