

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: P275788

Luminaire Tested: **14CZ2-20-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1355.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

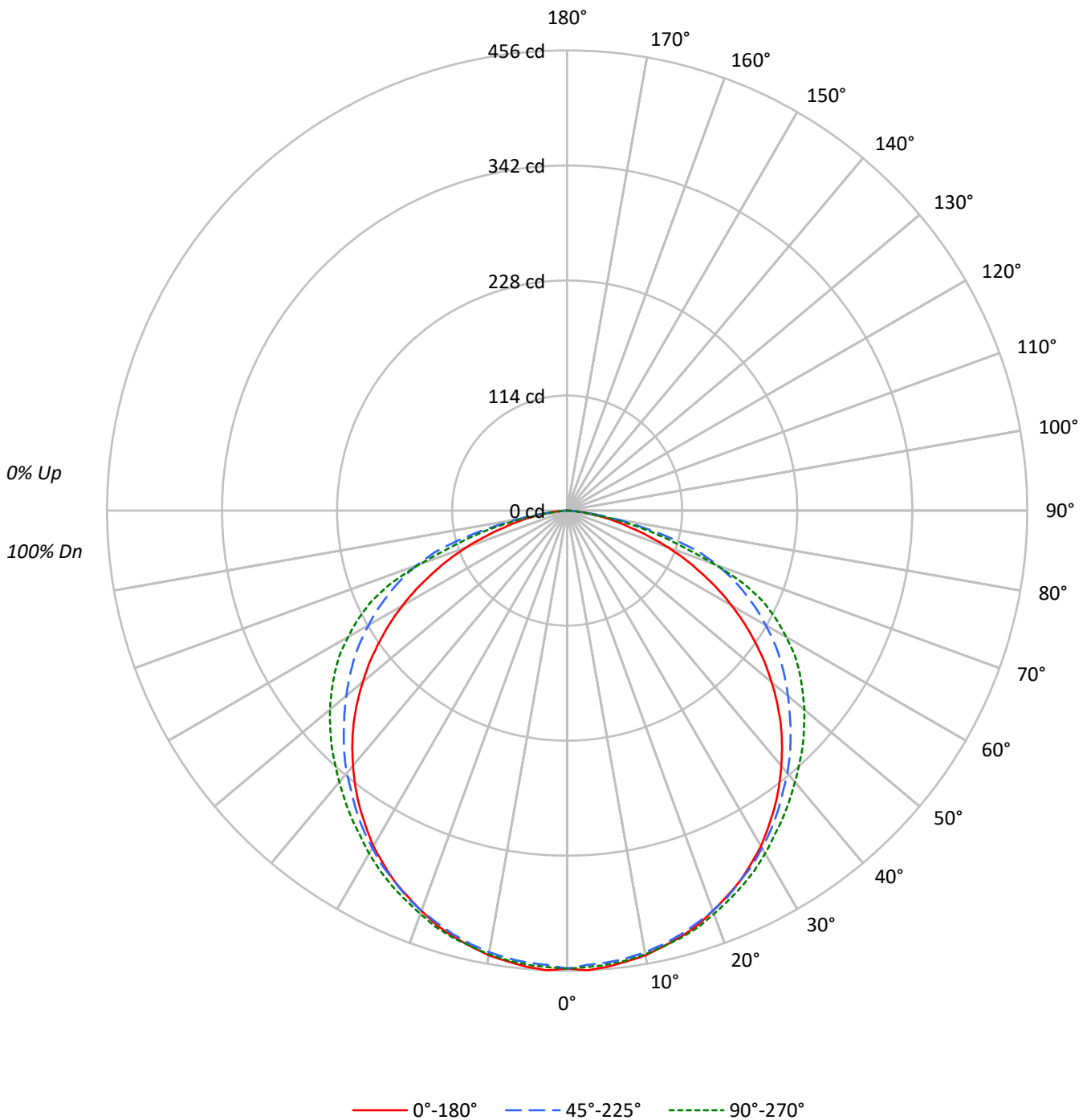
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1221	1221	1221
5°	1226	1214	1220
10°	1223	1214	1220
15°	1217	1211	1220
20°	1209	1209	1218
25°	1203	1203	1219
30°	1193	1200	1220
35°	1178	1195	1223
40°	1160	1193	1234
45°	1139	1192	1256
50°	1107	1196	1284
55°	1067	1211	1320
60°	1013	1224	1349
65°	936	1239	1367
70°	832	1249	1223
75°	671	1122	978
80°	525	787	640
85°	358	228	164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	3.2
10°-20°	123.2	9.1
20°-30°	187.7	13.8
30°-40°	228.6	16.9
40°-50°	242.5	17.9
50°-60°	228.9	16.9
60°-70°	184.8	13.6
70°-80°	100.2	7.4
80°-90°	16.2	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°	353.9	26.1
0°-40°	582.4	43.0
0°-60°	1053.8	77.8
0°-90°	1355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	454	453	450	453	452	43
15°	437	436	435	438	438	123
25°	405	404	405	409	410	187
35°	359	361	364	371	372	224
45°	299	304	313	325	330	231
55°	227	237	258	275	281	203
65°	147	165	195	210	215	146
75°	64	94	108	97	94	71
85°	12	13	7	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453.8	453.8	453.8	453.8	453.8
2.5°	455.9	453.8	450.7	453.8	452.8
5°	453.8	452.8	449.6	452.8	451.7
7.5°	450.7	450.7	447.5	449.6	449.6
10°	447.5	446.4	444.3	447.5	446.4
12.5°	442.2	441.1	440.1	443.2	442.2
15°	436.9	435.8	434.8	438.0	438.0
17.5°	430.6	429.5	428.4	432.7	432.7
20°	422.1	422.1	422.1	426.3	425.3
22.5°	413.6	413.6	414.7	418.9	417.9
25°	405.2	404.1	405.2	409.4	410.5
27.5°	394.6	395.6	396.7	400.9	402.0
30°	384.0	385.1	386.1	391.4	392.5
32.5°	371.3	373.4	375.5	381.9	381.9
35°	358.6	360.7	363.9	371.3	372.4
37.5°	344.9	347.0	351.2	359.7	361.8
40°	330.1	333.2	339.6	348.0	351.2
42.5°	315.2	319.5	326.9	336.4	340.6
45°	299.4	303.6	313.1	324.8	330.1
47.5°	282.4	287.7	299.4	314.2	318.4
50°	264.5	271.9	285.6	301.5	306.8
52.5°	246.5	254.9	271.9	288.8	294.1
55°	227.4	237.0	258.1	275.0	281.4
57.5°	208.4	219.0	243.3	261.3	267.6
60°	188.3	201.0	227.4	245.4	250.7
62.5°	168.2	183.0	211.6	229.6	233.8
65°	147.0	165.0	194.6	210.5	214.7
67.5°	126.9	148.1	177.7	189.4	189.4
70°	105.8	129.1	158.7	161.9	155.5
72.5°	84.6	111.1	137.5	125.9	120.6
75°	64.5	94.1	107.9	97.3	94.1
77.5°	48.7	76.2	76.2	69.8	67.7
80°	33.9	58.2	50.8	44.4	41.3
82.5°	22.2	32.8	26.4	21.2	18.0
85°	11.6	12.7	7.4	6.3	5.3
87.5°	4.2	2.1	1.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)