

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: P275842

Luminaire Tested: **14CZ2-20-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275842
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-L92765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1209.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

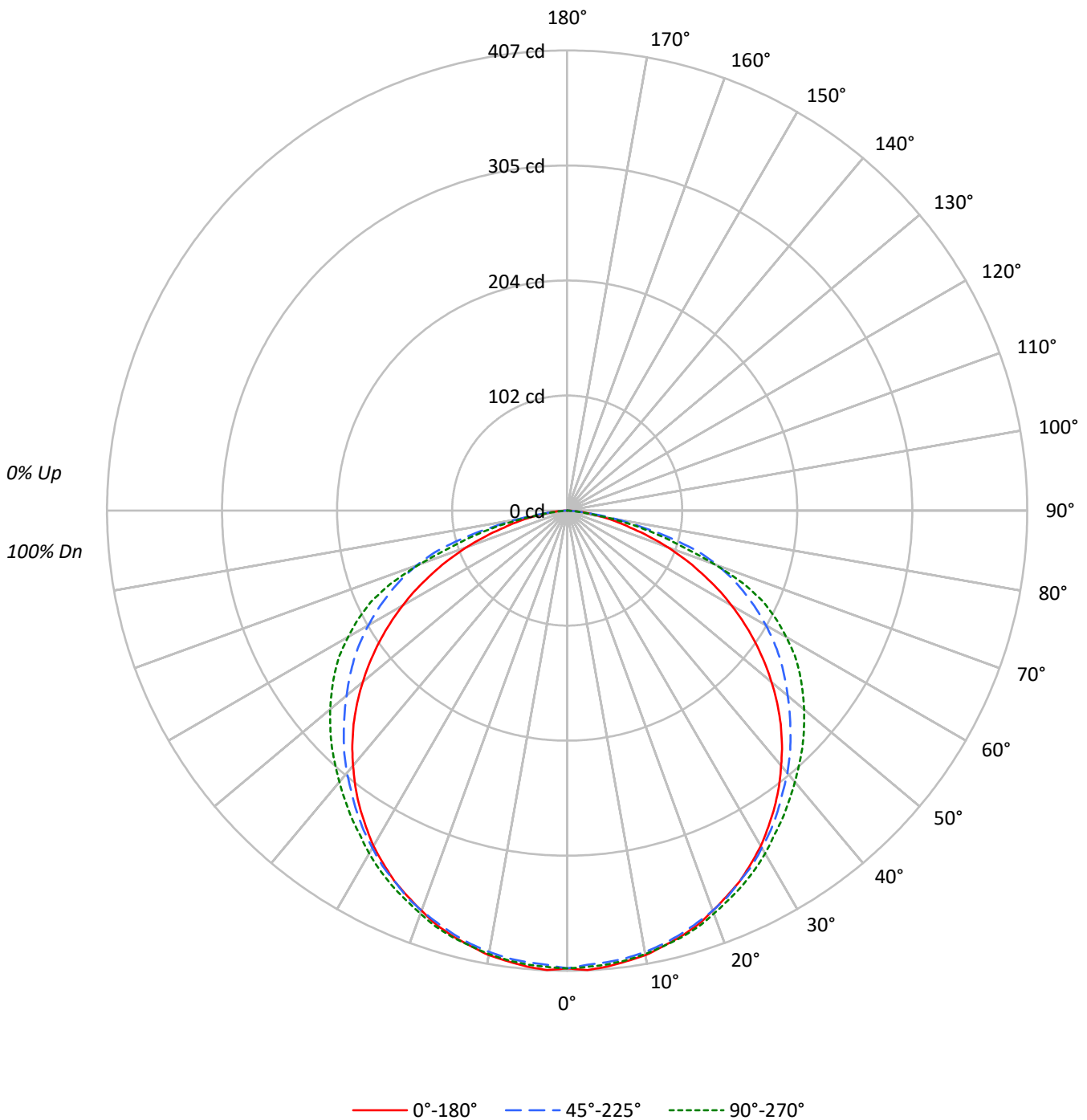
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1090	1090	1090
5°	1094	1083	1089
10°	1091	1083	1088
15°	1086	1081	1089
20°	1078	1078	1086
25°	1073	1073	1087
30°	1065	1070	1088
35°	1051	1067	1091
40°	1035	1064	1101
45°	1016	1063	1121
50°	988	1067	1146
55°	952	1080	1178
60°	904	1092	1204
65°	835	1106	1220
70°	743	1114	1092
75°	599	1001	873
80°	468	702	570
85°	321	204	145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	3.2
10°-20°	110.0	9.1
20°-30°	167.4	13.8
30°-40°	203.9	16.9
40°-50°	216.4	17.9
50°-60°	204.2	16.9
60°-70°	164.9	13.6
70°-80°	89.4	7.4
80°-90°	14.5	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°	315.7	26.1
0°-40°	519.7	43.0
0°-60°	940.2	77.8
0°-90°	1209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	405	405	405	405	405	
5°	405	404	401	404	403	38
15°	390	389	388	391	391	110
25°	362	361	362	365	366	166
35°	320	322	325	331	332	200
45°	267	271	279	290	294	206
55°	203	211	230	245	251	181
65°	131	147	174	188	192	130
75°	58	84	96	87	84	63
85°	10	11	7	6	5	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	404.9	404.9	404.9	404.9	404.9
2.5°	406.8	404.9	402.1	404.9	404.0
5°	404.9	404.0	401.1	404.0	403.0
7.5°	402.1	402.1	399.3	401.1	401.1
10°	399.3	398.3	396.4	399.3	398.3
12.5°	394.5	393.6	392.7	395.5	394.5
15°	389.8	388.9	387.9	390.8	390.8
17.5°	384.2	383.2	382.3	386.0	386.0
20°	376.6	376.6	376.6	380.4	379.4
22.5°	369.1	369.1	370.0	373.8	372.8
25°	361.5	360.6	361.5	365.3	366.2
27.5°	352.1	353.0	354.0	357.7	358.7
30°	342.6	343.6	344.5	349.2	350.2
32.5°	331.3	333.2	335.1	340.7	340.7
35°	320.0	321.9	324.7	331.3	332.2
37.5°	307.7	309.6	313.4	320.9	322.8
40°	294.5	297.3	303.0	310.5	313.4
42.5°	281.3	285.1	291.7	300.2	303.9
45°	267.1	270.9	279.4	289.8	294.5
47.5°	252.0	256.7	267.1	280.3	284.1
50°	236.0	242.6	254.8	269.0	273.7
52.5°	219.9	227.5	242.6	257.7	262.4
55°	202.9	211.4	230.3	245.4	251.1
57.5°	185.9	195.4	217.1	233.1	238.8
60°	168.0	179.3	202.9	219.0	223.7
62.5°	150.1	163.3	188.8	204.8	208.6
65°	131.2	147.2	173.7	187.8	191.6
67.5°	113.3	132.1	158.6	169.0	169.0
70°	94.4	115.2	141.6	144.4	138.8
72.5°	75.5	99.1	122.7	112.3	107.6
75°	57.6	84.0	96.3	86.8	84.0
77.5°	43.4	68.0	68.0	62.3	60.4
80°	30.2	51.9	45.3	39.6	36.8
82.5°	19.8	29.3	23.6	18.9	16.0
85°	10.4	11.3	6.6	5.7	4.7
87.5°	3.8	1.9	0.9	1.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)