

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: P275844

Luminaire Tested: **14CZ2-20-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275844
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-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1252.0 lumens
Efficiency: N/A
Efficacy: 79.2 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

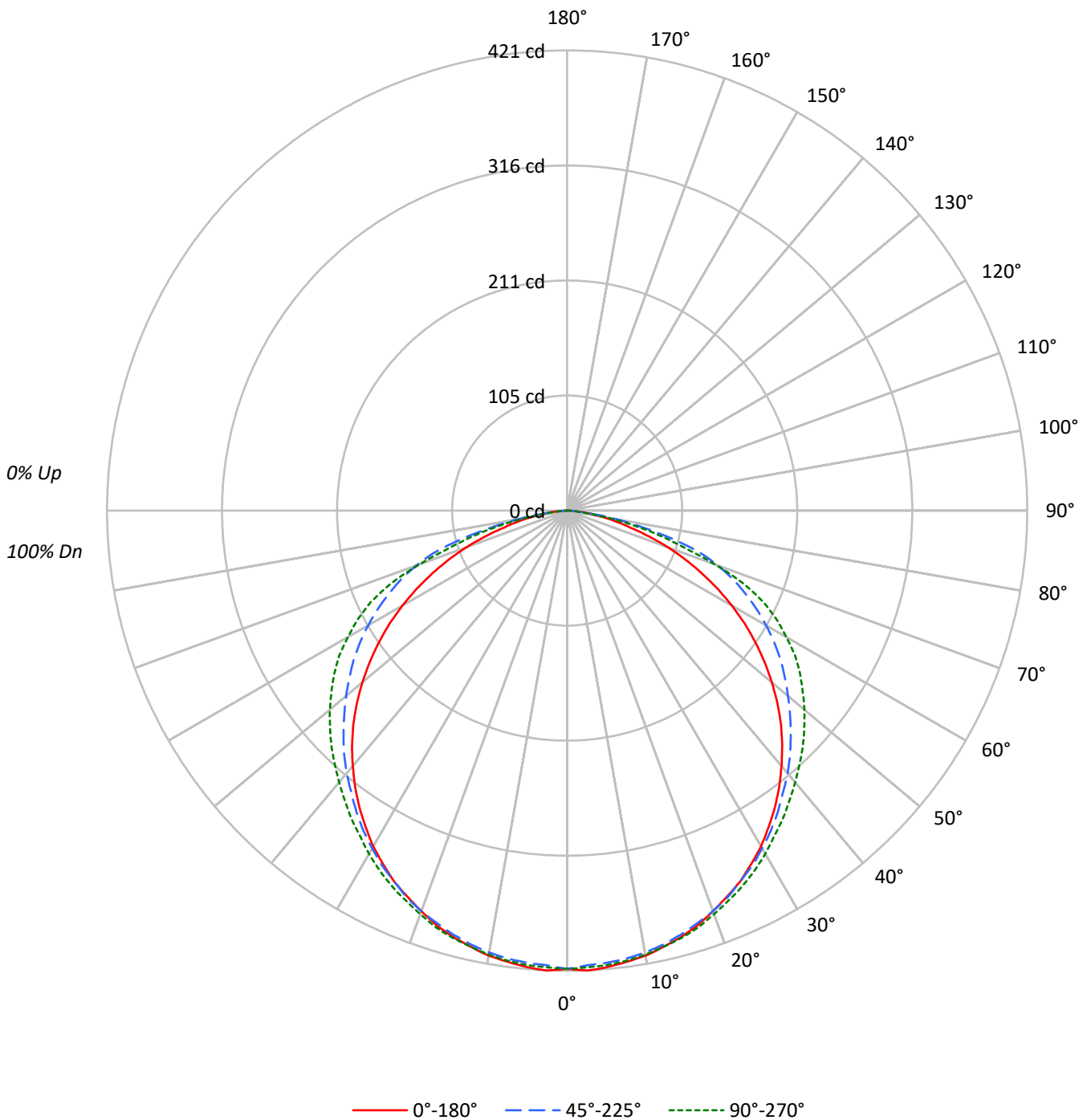
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1128	1128	1128
5°	1133	1122	1128
10°	1130	1122	1127
15°	1125	1119	1127
20°	1117	1117	1125
25°	1112	1112	1126
30°	1102	1109	1127
35°	1089	1104	1130
40°	1071	1102	1140
45°	1053	1101	1161
50°	1023	1105	1187
55°	986	1119	1220
60°	936	1131	1247
65°	865	1145	1263
70°	769	1153	1131
75°	620	1037	905
80°	485	727	590
85°	333	210	151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	3.2
10°-20°	113.9	9.1
20°-30°	173.4	13.8
30°-40°	211.2	16.9
40°-50°	224.1	17.9
50°-60°	211.5	16.9
60°-70°	170.7	13.6
70°-80°	92.6	7.4
80°-90°	15.0	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°	327.0	26.1
0°-40°	538.1	43.0
0°-60°	973.7	77.8
0°-90°	1252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	419	418	415	418	417	40
15°	404	403	402	405	405	114
25°	374	373	374	378	379	172
35°	331	333	336	343	344	207
45°	277	280	289	300	305	213
55°	210	219	238	254	260	188
65°	136	152	180	194	198	135
75°	60	87	100	90	87	65
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	419.3	419.3	419.3	419.3	419.3
2.5°	421.3	419.3	416.4	419.3	418.3
5°	419.3	418.3	415.4	418.3	417.4
7.5°	416.4	416.4	413.5	415.4	415.4
10°	413.5	412.5	410.5	413.5	412.5
12.5°	408.6	407.6	406.6	409.6	408.6
15°	403.7	402.7	401.7	404.7	404.7
17.5°	397.8	396.8	395.9	399.8	399.8
20°	390.0	390.0	390.0	393.9	392.9
22.5°	382.2	382.2	383.2	387.1	386.1
25°	374.4	373.4	374.4	378.3	379.3
27.5°	364.6	365.6	366.5	370.5	371.4
30°	354.8	355.8	356.8	361.7	362.6
32.5°	343.1	345.0	347.0	352.9	352.9
35°	331.4	333.3	336.2	343.1	344.1
37.5°	318.6	320.6	324.5	332.3	334.3
40°	305.0	307.9	313.8	321.6	324.5
42.5°	291.3	295.2	302.0	310.8	314.7
45°	276.6	280.5	289.3	300.1	305.0
47.5°	261.0	265.9	276.6	290.3	294.2
50°	244.4	251.2	263.9	278.6	283.5
52.5°	227.7	235.6	251.2	266.8	271.7
55°	210.2	218.9	238.5	254.1	260.0
57.5°	192.6	202.3	224.8	241.4	247.3
60°	174.0	185.7	210.2	226.8	231.7
62.5°	155.4	169.1	195.5	212.1	216.0
65°	135.9	152.5	179.9	194.5	198.4
67.5°	117.3	136.8	164.2	175.0	175.0
70°	97.7	119.2	146.6	149.6	143.7
72.5°	78.2	102.6	127.1	116.3	111.4
75°	59.6	87.0	99.7	89.9	87.0
77.5°	45.0	70.4	70.4	64.5	62.6
80°	31.3	53.8	46.9	41.1	38.1
82.5°	20.5	30.3	24.4	19.5	16.6
85°	10.8	11.7	6.8	5.9	4.9
87.5°	3.9	2.0	1.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)