

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: P275759

Luminaire Tested: **14CZ2-25-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275759
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: 14CZ2-25-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1211.0 lumens
Efficiency: N/A
Efficacy: 64.8 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

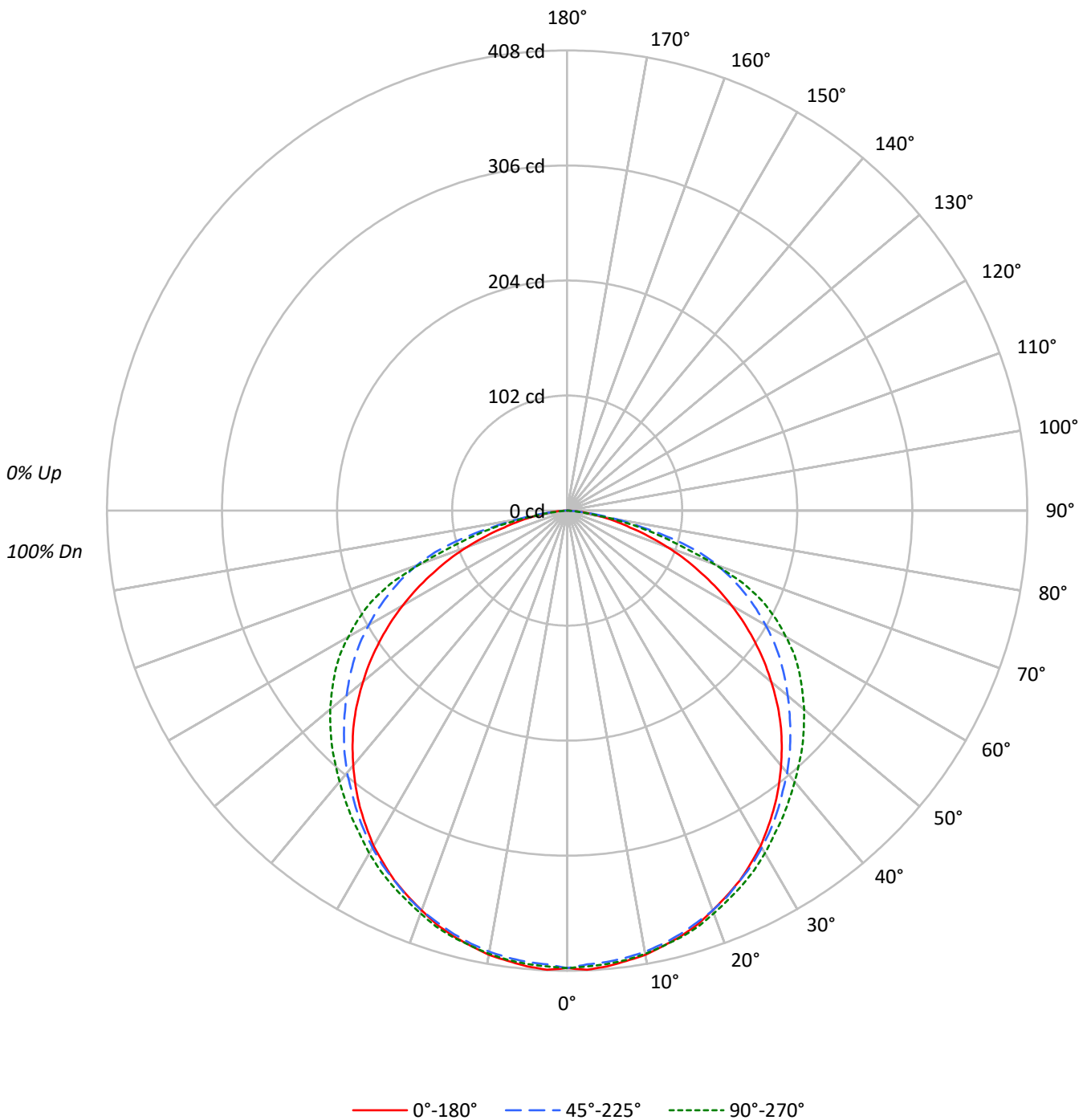
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1091	1091	1091
5°	1096	1085	1090
10°	1093	1085	1090
15°	1088	1083	1090
20°	1080	1080	1088
25°	1075	1075	1089
30°	1066	1072	1090
35°	1053	1068	1093
40°	1036	1066	1103
45°	1018	1065	1123
50°	990	1069	1148
55°	954	1082	1180
60°	906	1094	1206
65°	837	1108	1222
70°	744	1116	1094
75°	600	1002	874
80°	470	704	572
85°	321	204	145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	3.2
10°-20°	110.1	9.1
20°-30°	167.7	13.8
30°-40°	204.3	16.9
40°-50°	216.7	17.9
50°-60°	204.5	16.9
60°-70°	165.1	13.6
70°-80°	89.6	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°	316.2	26.1
0°-40°	520.5	43.0
0°-60°	941.8	77.8
0°-90°	1211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	406	405	402	405	404	39
15°	390	390	389	391	391	110
25°	362	361	362	366	367	167
35°	320	322	325	332	333	200
45°	268	271	280	290	295	206
55°	203	212	231	246	252	182
65°	131	148	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°	405.6	405.6	405.6	405.6	405.6
2.5°	407.5	405.6	402.8	405.6	404.6
5°	405.6	404.6	401.8	404.6	403.7
7.5°	402.8	402.8	399.9	401.8	401.8
10°	399.9	399.0	397.1	399.9	399.0
12.5°	395.2	394.2	393.3	396.1	395.2
15°	390.5	389.5	388.6	391.4	391.4
17.5°	384.8	383.8	382.9	386.7	386.7
20°	377.2	377.2	377.2	381.0	380.1
22.5°	369.7	369.7	370.6	374.4	373.4
25°	362.1	361.2	362.1	365.9	366.8
27.5°	352.7	353.6	354.5	358.3	359.3
30°	343.2	344.1	345.1	349.8	350.8
32.5°	331.9	333.7	335.6	341.3	341.3
35°	320.5	322.4	325.2	331.9	332.8
37.5°	308.2	310.1	313.9	321.5	323.3
40°	295.0	297.8	303.5	311.1	313.9
42.5°	281.7	285.5	292.1	300.7	304.4
45°	267.6	271.3	279.9	290.3	295.0
47.5°	252.4	257.2	267.6	280.8	284.6
50°	236.4	243.0	255.3	269.5	274.2
52.5°	220.3	227.9	243.0	258.1	262.8
55°	203.3	211.8	230.7	245.8	251.5
57.5°	186.3	195.7	217.5	233.5	239.2
60°	168.3	179.6	203.3	219.3	224.1
62.5°	150.3	163.6	189.1	205.2	208.9
65°	131.4	147.5	174.0	188.1	191.9
67.5°	113.5	132.4	158.8	169.2	169.2
70°	94.5	115.3	141.8	144.7	139.0
72.5°	75.6	99.3	122.9	112.5	107.8
75°	57.7	84.1	96.4	87.0	84.1
77.5°	43.5	68.1	68.1	62.4	60.5
80°	30.3	52.0	45.4	39.7	36.9
82.5°	19.9	29.3	23.6	18.9	16.1
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)