

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: P275853

Luminaire Tested: **14CZ2-25-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275853
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-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: 1461.0 lumens
Efficiency: N/A
Efficacy: 77.8 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

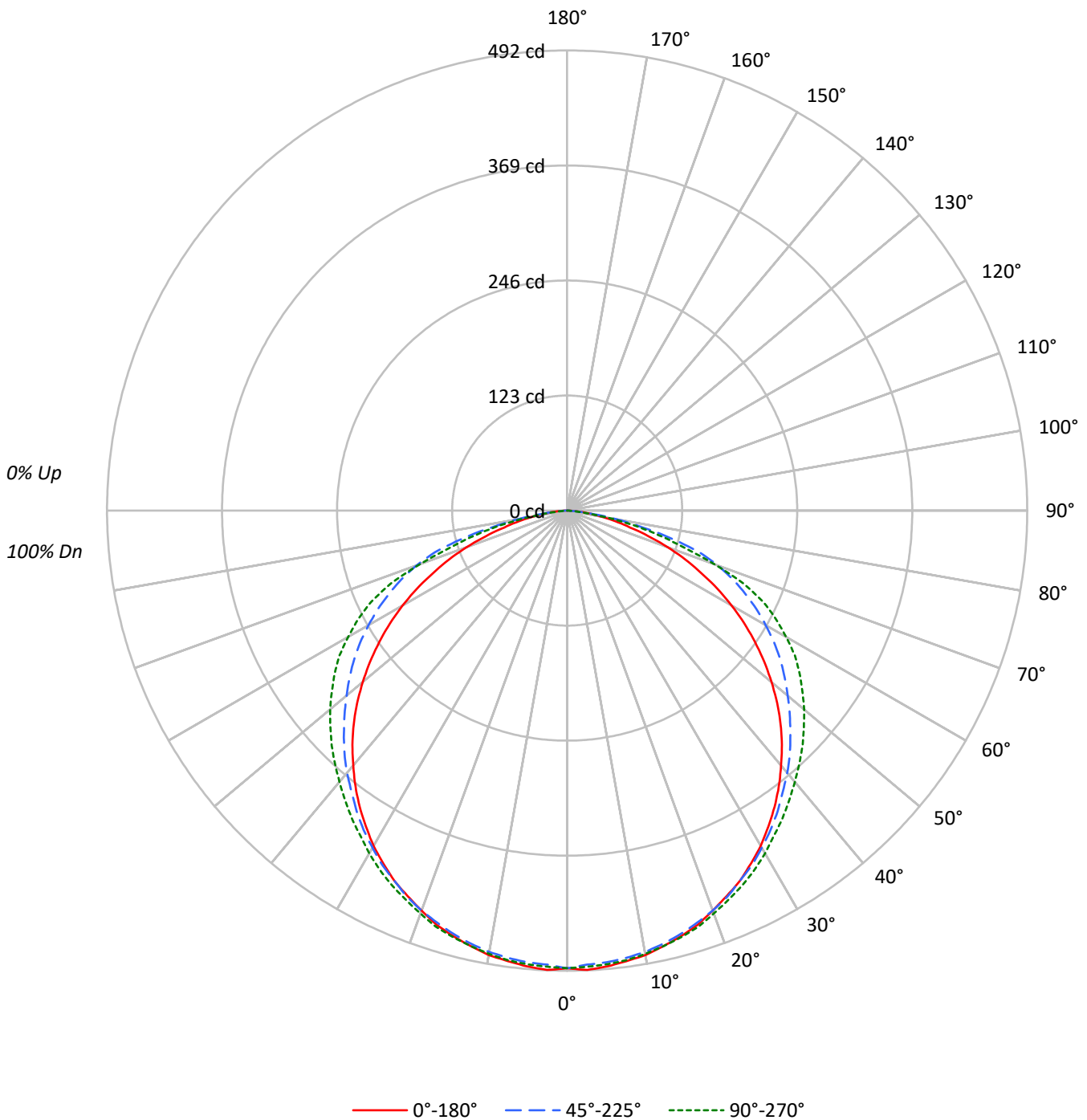
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1317	1317	1317
5°	1322	1310	1316
10°	1318	1309	1315
15°	1312	1306	1316
20°	1303	1303	1313
25°	1297	1297	1314
30°	1286	1294	1315
35°	1270	1289	1319
40°	1250	1286	1330
45°	1228	1285	1354
50°	1194	1289	1385
55°	1150	1306	1423
60°	1093	1320	1455
65°	1009	1337	1474
70°	898	1346	1319
75°	724	1209	1055
80°	566	848	690
85°	386	247	176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	3.2
10°-20°	132.9	9.1
20°-30°	202.3	13.8
30°-40°	246.4	16.9
40°-50°	261.5	17.9
50°-60°	246.8	16.9
60°-70°	199.2	13.6
70°-80°	108.1	7.4
80°-90°	17.5	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°	381.5	26.1
0°-40°	628.0	43.0
0°-60°	1136.2	77.8
0°-90°	1461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	489	488	485	488	487	46
15°	471	470	469	472	472	133
25°	437	436	437	441	443	201
35°	387	389	392	400	402	242
45°	323	327	338	350	356	249
55°	245	256	278	297	303	219
65°	158	178	210	227	232	157
75°	70	102	116	105	102	76
85°	12	14	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	489.3	489.3	489.3	489.3	489.3
2.5°	491.6	489.3	485.9	489.3	488.2
5°	489.3	488.2	484.8	488.2	487.0
7.5°	485.9	485.9	482.5	484.8	484.8
10°	482.5	481.3	479.1	482.5	481.3
12.5°	476.8	475.6	474.5	477.9	476.8
15°	471.1	469.9	468.8	472.2	472.2
17.5°	464.2	463.1	462.0	466.5	466.5
20°	455.1	455.1	455.1	459.7	458.5
22.5°	446.0	446.0	447.1	451.7	450.5
25°	436.9	435.7	436.9	441.4	442.6
27.5°	425.5	426.6	427.7	432.3	433.4
30°	414.0	415.2	416.3	422.0	423.2
32.5°	400.4	402.6	404.9	411.8	411.8
35°	386.7	389.0	392.4	400.4	401.5
37.5°	371.8	374.1	378.7	387.8	390.1
40°	355.9	359.3	366.1	375.3	378.7
42.5°	339.9	344.5	352.5	362.7	367.3
45°	322.8	327.4	337.6	350.2	355.9
47.5°	304.5	310.2	322.8	338.8	343.3
50°	285.2	293.1	308.0	325.1	330.8
52.5°	265.8	274.9	293.1	311.4	317.1
55°	245.2	255.5	278.3	296.6	303.4
57.5°	224.7	236.1	262.3	281.7	288.6
60°	203.0	216.7	245.2	264.6	270.3
62.5°	181.4	197.3	228.1	247.5	252.1
65°	158.5	177.9	209.9	227.0	231.5
67.5°	136.9	159.7	191.6	204.2	204.2
70°	114.1	139.2	171.1	174.5	167.7
72.5°	91.2	119.8	148.3	135.7	130.0
75°	69.6	101.5	116.3	104.9	101.5
77.5°	52.5	82.1	82.1	75.3	73.0
80°	36.5	62.7	54.7	47.9	44.5
82.5°	24.0	35.4	28.5	22.8	19.4
85°	12.5	13.7	8.0	6.8	5.7
87.5°	4.6	2.3	1.1	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)