

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: P275855

Luminaire Tested: **14CZ2-25-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275855
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1478.0 lumens
Efficiency: N/A
Efficacy: 77.5 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

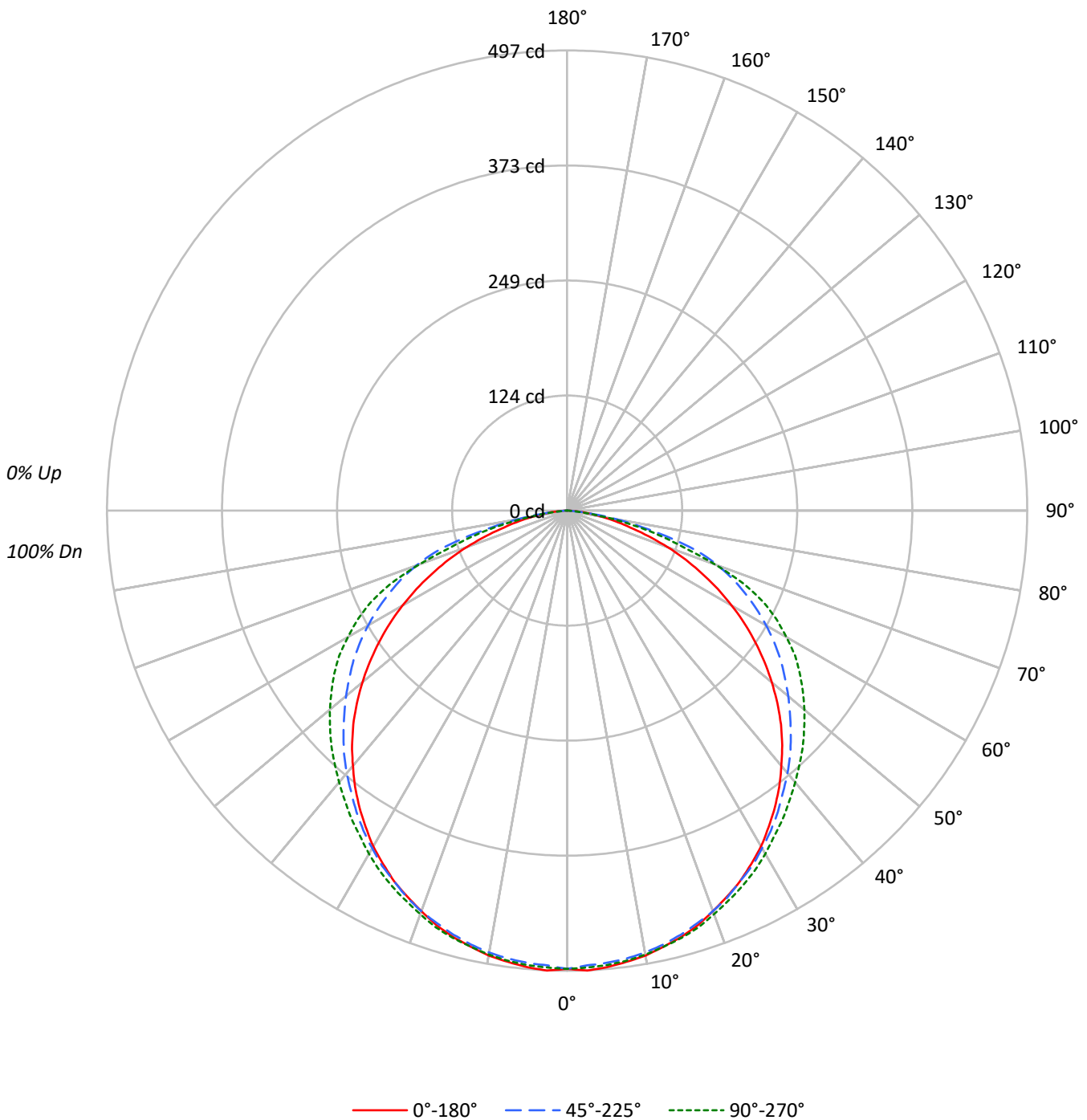
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1332	1332	1332
5°	1337	1325	1331
10°	1334	1324	1330
15°	1328	1321	1331
20°	1318	1318	1328
25°	1312	1312	1329
30°	1302	1309	1330
35°	1285	1304	1334
40°	1265	1301	1346
45°	1243	1300	1370
50°	1208	1304	1401
55°	1164	1321	1440
60°	1105	1335	1472
65°	1021	1352	1491
70°	908	1362	1334
75°	732	1224	1068
80°	572	859	697
85°	392	250	179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.2
10°-20°	134.4	9.1
20°-30°	204.7	13.8
30°-40°	249.3	16.9
40°-50°	264.5	17.9
50°-60°	249.6	16.9
60°-70°	201.5	13.6
70°-80°	109.3	7.4
80°-90°	17.7	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°	386.0	26.1
0°-40°	635.3	43.0
0°-60°	1149.4	77.8
0°-90°	1478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	495	494	490	494	493	47
15°	477	475	474	478	478	134
25°	442	441	442	447	448	203
35°	391	394	397	405	406	245
45°	327	331	342	354	360	251
55°	248	258	282	300	307	222
65°	160	180	212	230	234	159
75°	70	103	118	106	103	77
85°	13	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°	495.0	495.0	495.0	495.0	495.0
2.5°	497.3	495.0	491.6	495.0	493.9
5°	495.0	493.9	490.4	493.9	492.7
7.5°	491.6	491.6	488.1	490.4	490.4
10°	488.1	486.9	484.6	488.1	486.9
12.5°	482.3	481.2	480.0	483.5	482.3
15°	476.6	475.4	474.2	477.7	477.7
17.5°	469.6	468.5	467.3	471.9	471.9
20°	460.4	460.4	460.4	465.0	463.9
22.5°	451.2	451.2	452.3	456.9	455.8
25°	441.9	440.8	441.9	446.6	447.7
27.5°	430.4	431.6	432.7	437.3	438.5
30°	418.9	420.0	421.2	426.9	428.1
32.5°	405.0	407.3	409.6	416.6	416.6
35°	391.2	393.5	396.9	405.0	406.2
37.5°	376.2	378.5	383.1	392.3	394.6
40°	360.0	363.5	370.4	379.6	383.1
42.5°	343.9	348.5	356.6	366.9	371.6
45°	326.6	331.2	341.6	354.2	360.0
47.5°	308.1	313.9	326.6	342.7	347.3
50°	288.5	296.6	311.6	328.9	334.6
52.5°	268.9	278.1	296.6	315.0	320.8
55°	248.1	258.5	281.5	300.0	306.9
57.5°	227.3	238.9	265.4	285.0	291.9
60°	205.4	219.2	248.1	267.7	273.5
62.5°	183.5	199.6	230.8	250.4	255.0
65°	160.4	180.0	212.3	229.6	234.2
67.5°	138.5	161.5	193.9	206.5	206.5
70°	115.4	140.8	173.1	176.5	169.6
72.5°	92.3	121.2	150.0	137.3	131.5
75°	70.4	102.7	117.7	106.2	102.7
77.5°	53.1	83.1	83.1	76.2	73.8
80°	36.9	63.5	55.4	48.5	45.0
82.5°	24.2	35.8	28.8	23.1	19.6
85°	12.7	13.8	8.1	6.9	5.8
87.5°	4.6	2.3	1.2	2.3	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)