

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: P275799

Luminaire Tested: **14CZ2-25-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275799
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-L82765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1619.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

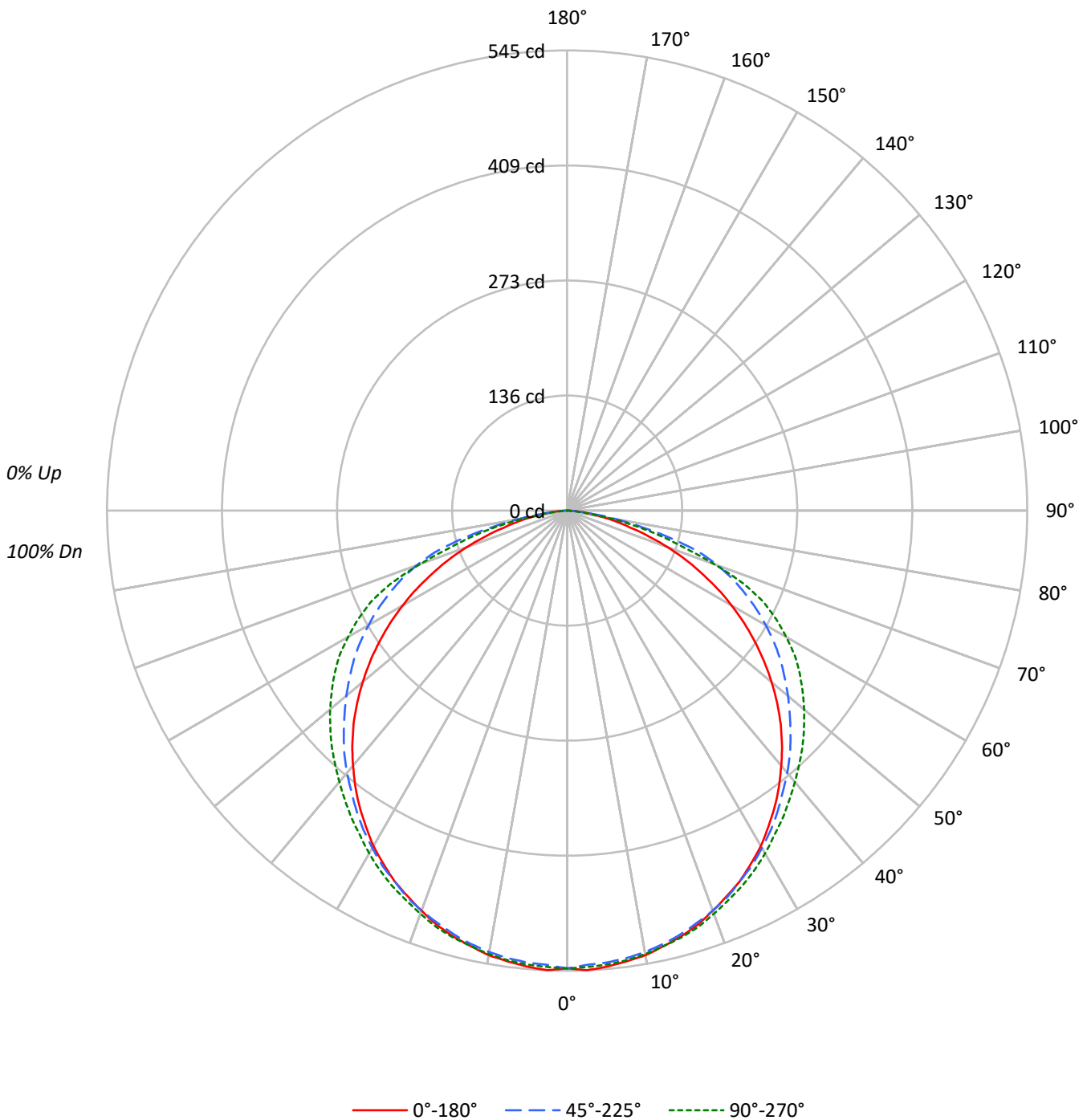
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1459	1459	1459
5°	1465	1451	1458
10°	1461	1451	1458
15°	1454	1447	1458
20°	1444	1444	1455
25°	1437	1437	1456
30°	1426	1434	1457
35°	1408	1428	1462
40°	1385	1425	1474
45°	1361	1424	1501
50°	1323	1429	1535
55°	1275	1447	1577
60°	1211	1463	1612
65°	1119	1481	1634
70°	995	1492	1462
75°	802	1340	1170
80°	626	941	764
85°	429	272	195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.2
10°-20°	147.3	9.1
20°-30°	224.2	13.8
30°-40°	273.1	16.9
40°-50°	289.7	17.9
50°-60°	273.4	16.9
60°-70°	220.8	13.6
70°-80°	119.8	7.4
80°-90°	19.4	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°	422.8	26.1
0°-40°	695.9	43.0
0°-60°	1259.1	77.8
0°-90°	1619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	542	541	537	541	540	51
15°	522	521	520	523	523	147
25°	484	483	484	489	490	223
35°	428	431	435	444	445	268
45°	358	363	374	388	394	275
55°	272	283	308	329	336	243
65°	176	197	233	252	257	174
75°	77	112	129	116	112	84
85°	14	15	9	8	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	542.2	542.2	542.2	542.2	542.2
2.5°	544.8	542.2	538.5	542.2	541.0
5°	542.2	541.0	537.2	541.0	539.7
7.5°	538.5	538.5	534.7	537.2	537.2
10°	534.7	533.4	530.9	534.7	533.4
12.5°	528.3	527.1	525.8	529.6	528.3
15°	522.0	520.8	519.5	523.3	523.3
17.5°	514.4	513.2	511.9	517.0	517.0
20°	504.3	504.3	504.3	509.4	508.1
22.5°	494.2	494.2	495.5	500.5	499.3
25°	484.1	482.8	484.1	489.2	490.4
27.5°	471.5	472.7	474.0	479.0	480.3
30°	458.8	460.1	461.4	467.7	468.9
32.5°	443.7	446.2	448.7	456.3	456.3
35°	428.5	431.0	434.8	443.7	444.9
37.5°	412.1	414.6	419.6	429.8	432.3
40°	394.4	398.2	405.7	415.8	419.6
42.5°	376.7	381.7	390.6	401.9	407.0
45°	357.7	362.8	374.1	388.0	394.4
47.5°	337.5	343.8	357.7	375.4	380.5
50°	316.0	324.8	341.3	360.2	366.6
52.5°	294.5	304.6	324.8	345.1	351.4
55°	271.8	283.1	308.4	328.6	336.2
57.5°	249.0	261.6	290.7	312.2	319.8
60°	225.0	240.2	271.8	293.2	299.6
62.5°	201.0	218.7	252.8	274.3	279.3
65°	175.7	197.2	232.6	251.5	256.6
67.5°	151.7	177.0	212.3	226.3	226.3
70°	126.4	154.2	189.6	193.4	185.8
72.5°	101.1	132.7	164.3	150.4	144.1
75°	77.1	112.5	128.9	116.3	112.5
77.5°	58.1	91.0	91.0	83.4	80.9
80°	40.4	69.5	60.7	53.1	49.3
82.5°	26.5	39.2	31.6	25.3	21.5
85°	13.9	15.2	8.8	7.6	6.3
87.5°	5.1	2.5	1.3	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)