

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: P275794

Luminaire Tested: **14CZ2-25-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275794
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-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1469.0 lumens
Efficiency: N/A
Efficacy: 81.0 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

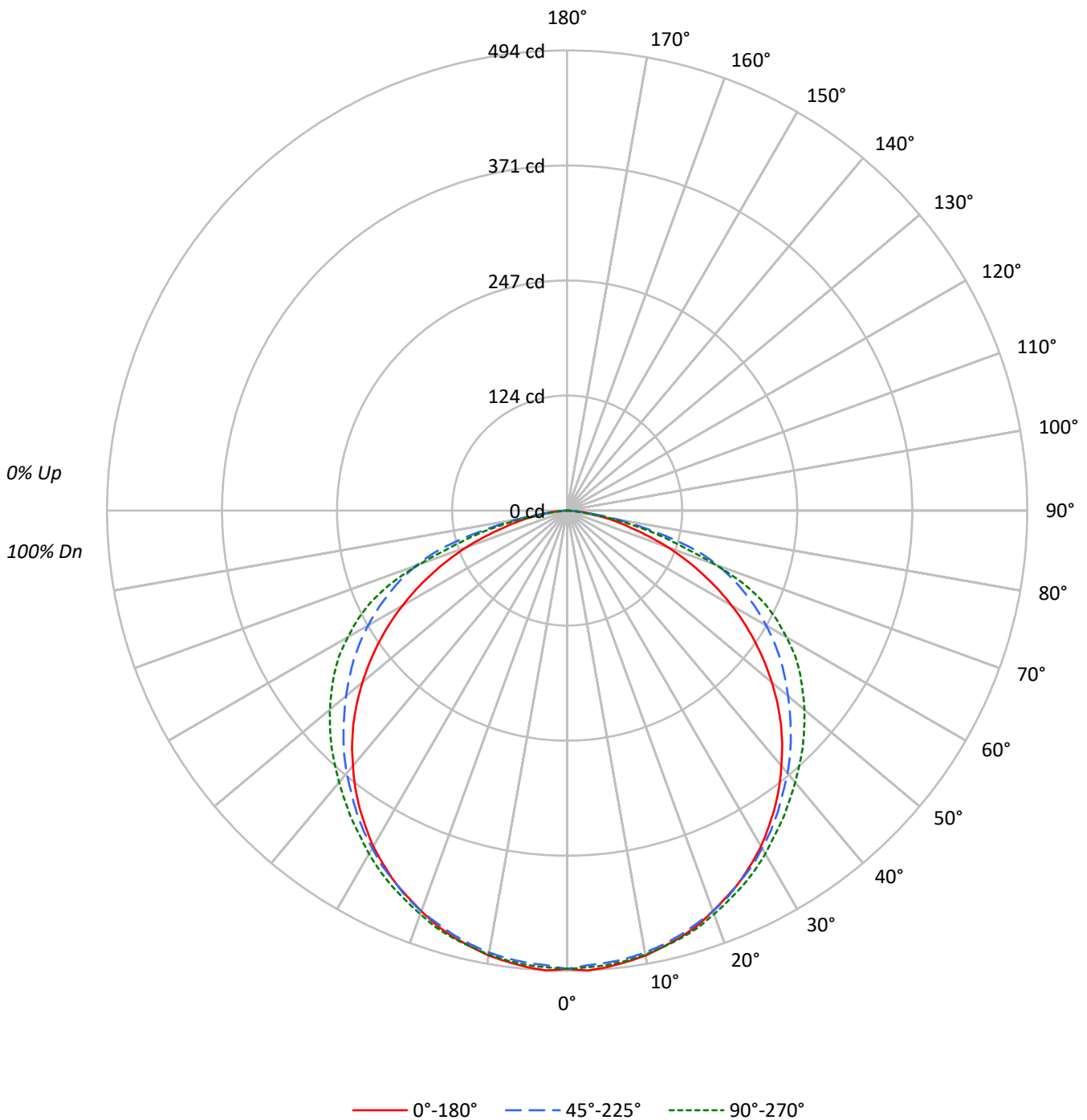
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1324	1324	1324
5°	1329	1317	1323
10°	1326	1316	1323
15°	1320	1313	1323
20°	1310	1310	1320
25°	1304	1304	1321
30°	1294	1301	1322
35°	1277	1296	1326
40°	1257	1293	1338
45°	1235	1292	1362
50°	1200	1297	1392
55°	1157	1313	1431
60°	1098	1327	1463
65°	1015	1344	1482
70°	902	1353	1327
75°	728	1216	1062
80°	569	852	693
85°	389	247	176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	3.2
10°-20°	133.6	9.1
20°-30°	203.4	13.8
30°-40°	247.8	16.9
40°-50°	262.9	17.9
50°-60°	248.1	16.9
60°-70°	200.3	13.6
70°-80°	108.7	7.4
80°-90°	17.6	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°	383.6	26.1
0°-40°	631.4	43.0
0°-60°	1142.4	77.8
0°-90°	1469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	492	491	487	491	490	47
15°	474	472	471	475	475	134
25°	439	438	439	444	445	202
35°	389	391	394	403	404	243
45°	325	329	340	352	358	250
55°	247	257	280	298	305	220
65°	159	179	211	228	233	158
75°	70	102	117	106	102	76
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°	492.0	492.0	492.0	492.0	492.0
2.5°	494.3	492.0	488.6	492.0	490.9
5°	492.0	490.9	487.4	490.9	489.7
7.5°	488.6	488.6	485.1	487.4	487.4
10°	485.1	484.0	481.7	485.1	484.0
12.5°	479.4	478.2	477.1	480.5	479.4
15°	473.7	472.5	471.4	474.8	474.8
17.5°	466.8	465.6	464.5	469.1	469.1
20°	457.6	457.6	457.6	462.2	461.0
22.5°	448.4	448.4	449.6	454.2	453.0
25°	439.2	438.1	439.2	443.8	445.0
27.5°	427.8	428.9	430.1	434.7	435.8
30°	416.3	417.5	418.6	424.3	425.5
32.5°	402.6	404.8	407.1	414.0	414.0
35°	388.8	391.1	394.5	402.6	403.7
37.5°	373.9	376.2	380.8	389.9	392.2
40°	357.8	361.3	368.1	377.3	380.8
42.5°	341.8	346.4	354.4	364.7	369.3
45°	324.6	329.2	339.5	352.1	357.8
47.5°	306.2	311.9	324.6	340.6	345.2
50°	286.7	294.7	309.7	326.9	332.6
52.5°	267.2	276.4	294.7	313.1	318.8
55°	246.6	256.9	279.8	298.2	305.1
57.5°	225.9	237.4	263.8	283.3	290.2
60°	204.1	217.9	246.6	266.1	271.8
62.5°	182.4	198.4	229.4	248.9	253.5
65°	159.4	178.9	211.0	228.2	232.8
67.5°	137.6	160.6	192.7	205.3	205.3
70°	114.7	139.9	172.0	175.5	168.6
72.5°	91.7	120.4	149.1	136.5	130.7
75°	70.0	102.1	117.0	105.5	102.1
77.5°	52.8	82.6	82.6	75.7	73.4
80°	36.7	63.1	55.0	48.2	44.7
82.5°	24.1	35.6	28.7	22.9	19.5
85°	12.6	13.8	8.0	6.9	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)