

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: P275793

Luminaire Tested: **14CZ2-25-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275793
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-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1428.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

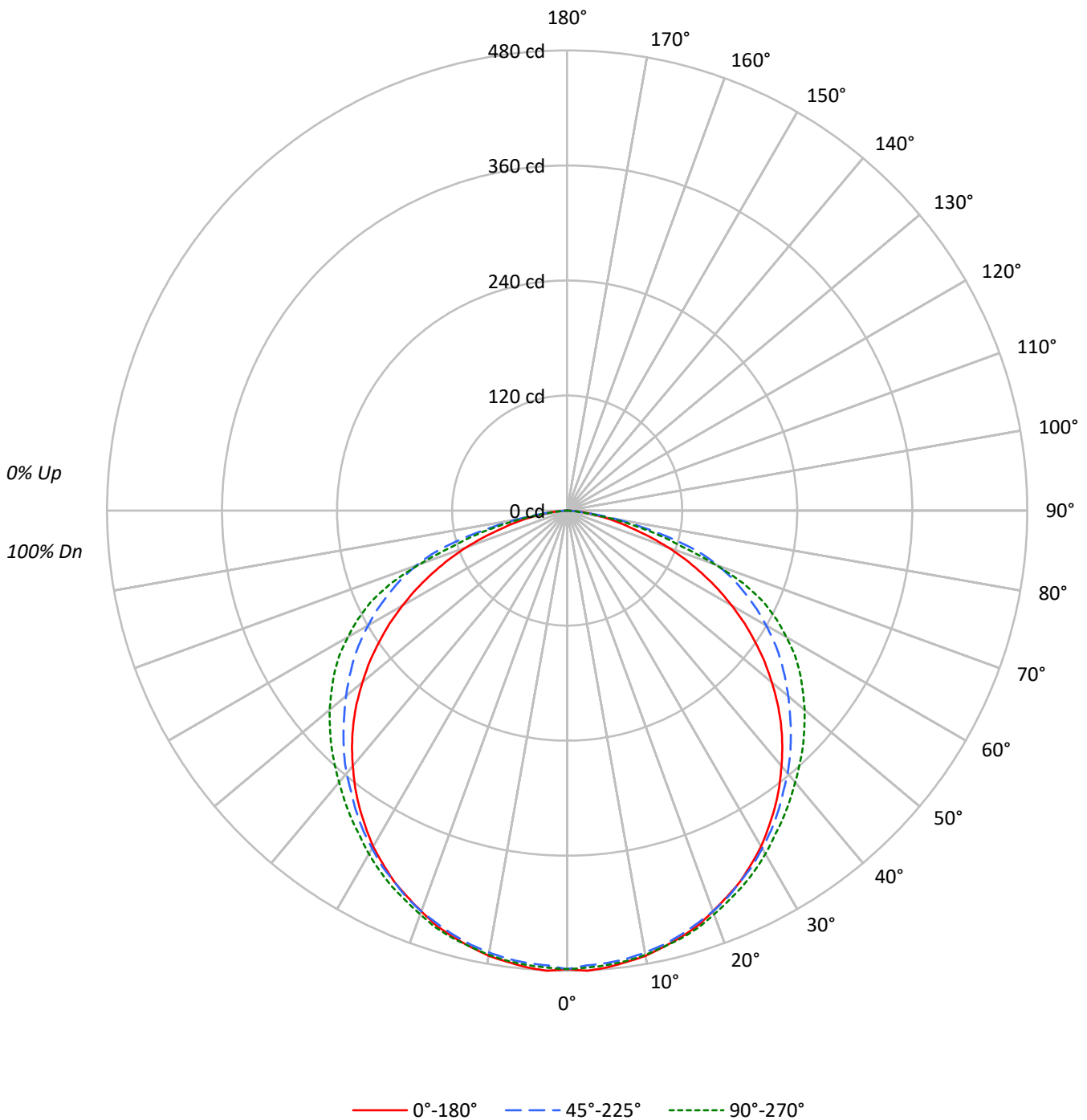
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1287	1287	1287
5°	1292	1280	1286
10°	1289	1279	1286
15°	1283	1277	1286
20°	1274	1274	1284
25°	1268	1268	1284
30°	1258	1264	1285
35°	1241	1260	1289
40°	1222	1257	1300
45°	1201	1256	1324
50°	1167	1260	1353
55°	1125	1276	1392
60°	1068	1290	1422
65°	987	1306	1441
70°	877	1316	1290
75°	707	1182	1031
80°	553	829	674
85°	380	241	173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	3.2
10°-20°	129.9	9.1
20°-30°	197.8	13.8
30°-40°	240.9	16.9
40°-50°	255.6	17.9
50°-60°	241.2	16.9
60°-70°	194.7	13.6
70°-80°	105.6	7.4
80°-90°	17.1	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°	372.9	26.1
0°-40°	613.8	43.0
0°-60°	1110.5	77.8
0°-90°	1428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	478	477	474	477	476	45
15°	460	459	458	462	462	130
25°	427	426	427	431	433	197
35°	378	380	384	391	392	236
45°	316	320	330	342	348	243
55°	240	250	272	290	297	214
65°	155	174	205	222	226	154
75°	68	99	114	103	99	74
85°	12	13	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°	478.3	478.3	478.3	478.3	478.3
2.5°	480.5	478.3	474.9	478.3	477.2
5°	478.3	477.2	473.8	477.2	476.0
7.5°	474.9	474.9	471.6	473.8	473.8
10°	471.6	470.5	468.2	471.6	470.5
12.5°	466.0	464.9	463.8	467.1	466.0
15°	460.4	459.3	458.2	461.6	461.6
17.5°	453.7	452.6	451.5	456.0	456.0
20°	444.8	444.8	444.8	449.3	448.2
22.5°	435.9	435.9	437.0	441.5	440.4
25°	427.0	425.9	427.0	431.4	432.6
27.5°	415.8	417.0	418.1	422.5	423.6
30°	404.7	405.8	406.9	412.5	413.6
32.5°	391.3	393.5	395.8	402.5	402.5
35°	377.9	380.2	383.5	391.3	392.4
37.5°	363.4	365.7	370.1	379.1	381.3
40°	347.8	351.2	357.9	366.8	370.1
42.5°	332.2	336.7	344.5	354.5	359.0
45°	315.5	320.0	330.0	342.3	347.8
47.5°	297.7	303.2	315.5	331.1	335.6
50°	278.7	286.5	301.0	317.7	323.3
52.5°	259.8	268.7	286.5	304.4	309.9
55°	239.7	249.7	272.0	289.9	296.6
57.5°	219.6	230.8	256.4	275.4	282.1
60°	198.4	211.8	239.7	258.6	264.2
62.5°	177.3	192.9	223.0	241.9	246.4
65°	155.0	173.9	205.1	221.9	226.3
67.5°	133.8	156.1	187.3	199.6	199.6
70°	111.5	136.0	167.2	170.6	163.9
72.5°	89.2	117.1	144.9	132.7	127.1
75°	68.0	99.2	113.7	102.6	99.2
77.5°	51.3	80.3	80.3	73.6	71.4
80°	35.7	61.3	53.5	46.8	43.5
82.5°	23.4	34.6	27.9	22.3	19.0
85°	12.3	13.4	7.8	6.7	5.6
87.5°	4.5	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)