

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: P275852

Luminaire Tested: **14CZ2-25-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275852
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1439.0 lumens
Efficiency: N/A
Efficacy: 77.0 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

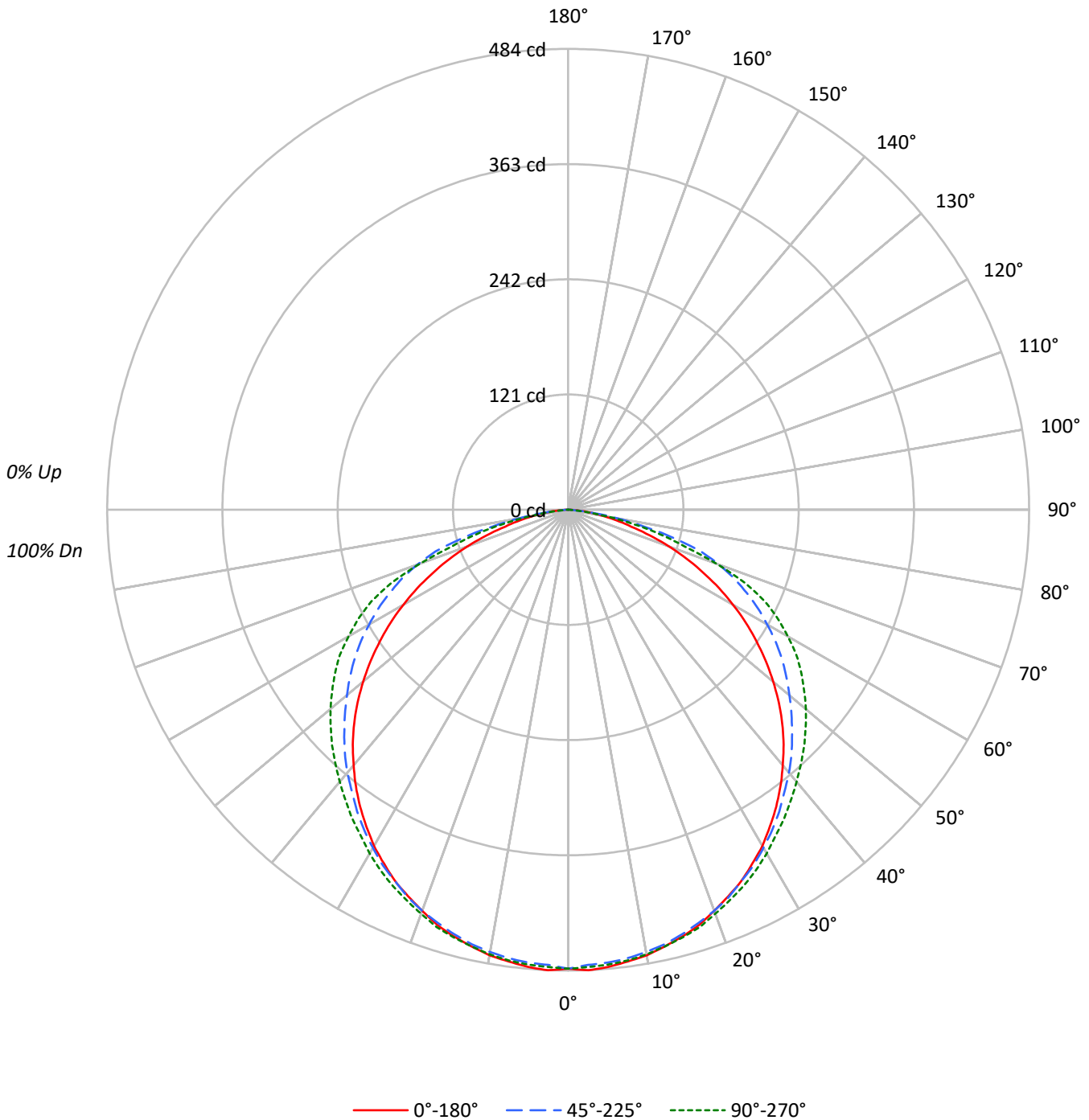
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1297	1297	1297
5°	1302	1290	1296
10°	1298	1289	1295
15°	1293	1286	1296
20°	1284	1284	1293
25°	1278	1278	1294
30°	1267	1274	1295
35°	1251	1270	1299
40°	1231	1267	1310
45°	1210	1265	1334
50°	1176	1270	1364
55°	1133	1286	1402
60°	1076	1300	1433
65°	995	1316	1452
70°	884	1326	1299
75°	712	1192	1040
80°	558	835	679
85°	383	244	173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	3.2
10°-20°	130.9	9.1
20°-30°	199.3	13.8
30°-40°	242.7	16.9
40°-50°	257.5	17.9
50°-60°	243.0	16.9
60°-70°	196.2	13.6
70°-80°	106.5	7.4
80°-90°	17.2	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°	375.8	26.1
0°-40°	618.5	43.0
0°-60°	1119.1	77.8
0°-90°	1439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	482	481	478	481	480	46
15°	464	463	462	465	465	131
25°	430	429	430	435	436	198
35°	381	383	386	394	396	238
45°	318	322	332	345	350	245
55°	242	252	274	292	299	216
65°	156	175	207	224	228	155
75°	68	100	115	103	100	75
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°	482.0	482.0	482.0	482.0	482.0
2.5°	484.2	482.0	478.6	482.0	480.8
5°	482.0	480.8	477.5	480.8	479.7
7.5°	478.6	478.6	475.2	477.5	477.5
10°	475.2	474.1	471.8	475.2	474.1
12.5°	469.6	468.5	467.4	470.7	469.6
15°	464.0	462.9	461.7	465.1	465.1
17.5°	457.2	456.1	455.0	459.5	459.5
20°	448.3	448.3	448.3	452.7	451.6
22.5°	439.3	439.3	440.4	444.9	443.8
25°	430.3	429.2	430.3	434.8	435.9
27.5°	419.0	420.2	421.3	425.8	426.9
30°	407.8	408.9	410.1	415.7	416.8
32.5°	394.3	396.6	398.8	405.6	405.6
35°	380.8	383.1	386.5	394.3	395.5
37.5°	366.2	368.5	373.0	382.0	384.2
40°	350.5	353.9	360.6	369.6	373.0
42.5°	334.8	339.3	347.1	357.3	361.7
45°	317.9	322.4	332.5	344.9	350.5
47.5°	300.0	305.6	317.9	333.7	338.2
50°	280.9	288.7	303.3	320.2	325.8
52.5°	261.8	270.8	288.7	306.7	312.3
55°	241.5	251.7	274.1	292.1	298.8
57.5°	221.3	232.6	258.4	277.5	284.2
60°	200.0	213.5	241.5	260.6	266.3
62.5°	178.6	194.4	224.7	243.8	248.3
65°	156.2	175.3	206.7	223.6	228.1
67.5°	134.8	157.3	188.7	201.1	201.1
70°	112.3	137.1	168.5	171.9	165.1
72.5°	89.9	118.0	146.0	133.7	128.1
75°	68.5	100.0	114.6	103.4	100.0
77.5°	51.7	80.9	80.9	74.1	71.9
80°	36.0	61.8	53.9	47.2	43.8
82.5°	23.6	34.8	28.1	22.5	19.1
85°	12.4	13.5	7.9	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)