

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: P259002

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1555.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

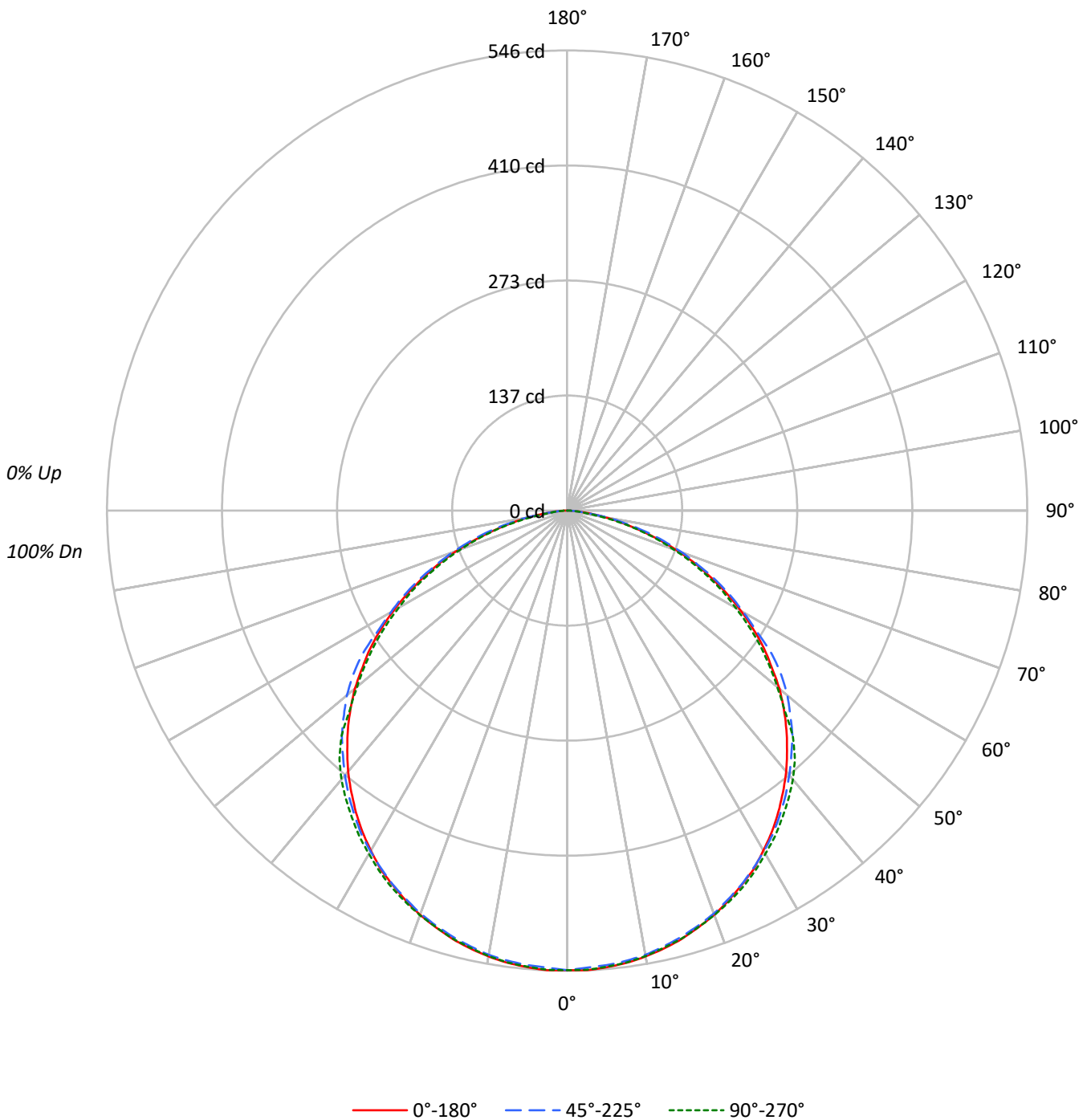
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1467	1467	1467
5°	1469	1462	1468
10°	1468	1462	1467
15°	1466	1459	1464
20°	1462	1457	1463
25°	1455	1454	1464
30°	1447	1450	1461
35°	1435	1447	1462
40°	1421	1440	1463
45°	1400	1439	1441
50°	1377	1428	1362
55°	1339	1391	1313
60°	1282	1301	1244
65°	1200	1233	1168
70°	1093	1136	1057
75°	912	996	896
80°	722	762	620
85°	469	408	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.3
10°-20°	148.3	9.5
20°-30°	226.3	14.6
30°-40°	276.0	17.7
40°-50°	289.0	18.6
50°-60°	257.1	16.5
60°-70°	189.7	12.2
70°-80°	98.0	6.3
80°-90°	19.1	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°	426.3	27.4
0°-40°	702.2	45.2
0°-60°	1248.3	80.3
0°-90°	1555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	544	543	541	543	543	52
15°	526	526	524	526	526	148
25°	490	490	490	493	493	226
35°	437	437	440	446	445	273
45°	368	370	378	382	379	284
55°	285	291	296	284	280	254
65°	188	202	194	187	184	187
75°	88	97	96	88	86	95
85°	15	17	13	12	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	545.3	545.3	545.3	545.3	545.3
2.5°	545.9	545.3	542.8	545.3	545.3
5°	543.8	543.3	541.3	543.3	543.3
7.5°	541.3	540.8	538.8	540.8	540.8
10°	537.2	536.7	535.2	537.2	536.7
12.5°	532.2	532.2	529.6	532.2	531.2
15°	526.1	525.6	523.6	525.6	525.6
17.5°	518.5	518.0	516.5	519.0	518.0
20°	510.4	509.9	508.9	511.4	510.9
22.5°	500.7	500.7	499.2	502.3	502.3
25°	490.1	490.1	489.6	493.1	493.1
27.5°	479.5	478.4	478.4	482.0	482.5
30°	465.8	465.8	466.8	470.8	470.3
32.5°	452.1	452.6	454.6	458.2	458.7
35°	436.9	437.4	440.4	445.5	445.0
37.5°	420.7	422.2	425.7	431.3	431.3
40°	404.4	405.5	410.0	416.1	416.6
42.5°	386.2	388.7	393.8	400.9	399.9
45°	368.0	370.5	378.1	381.6	378.6
47.5°	348.7	351.7	359.3	359.8	349.7
50°	328.9	332.5	341.1	331.0	325.4
52.5°	306.1	312.7	320.3	306.1	302.6
55°	285.3	291.4	296.5	283.8	279.8
57.5°	262.0	270.1	266.6	260.5	255.4
60°	238.2	246.8	241.8	235.7	231.1
62.5°	213.9	223.5	218.4	212.4	208.3
65°	188.5	201.7	193.6	187.0	183.5
67.5°	164.7	177.4	167.8	162.7	159.1
70°	138.9	149.5	144.4	137.9	134.3
72.5°	113.5	121.6	120.1	113.0	110.5
75°	87.7	96.8	95.8	88.2	86.2
77.5°	65.9	74.5	71.5	65.4	62.8
80°	46.6	52.2	49.2	42.1	40.0
82.5°	28.4	32.9	27.9	23.8	21.8
85°	15.2	16.7	13.2	12.2	11.7
87.5°	5.6	5.6	5.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)