

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: P258942

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258942
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-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1557.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

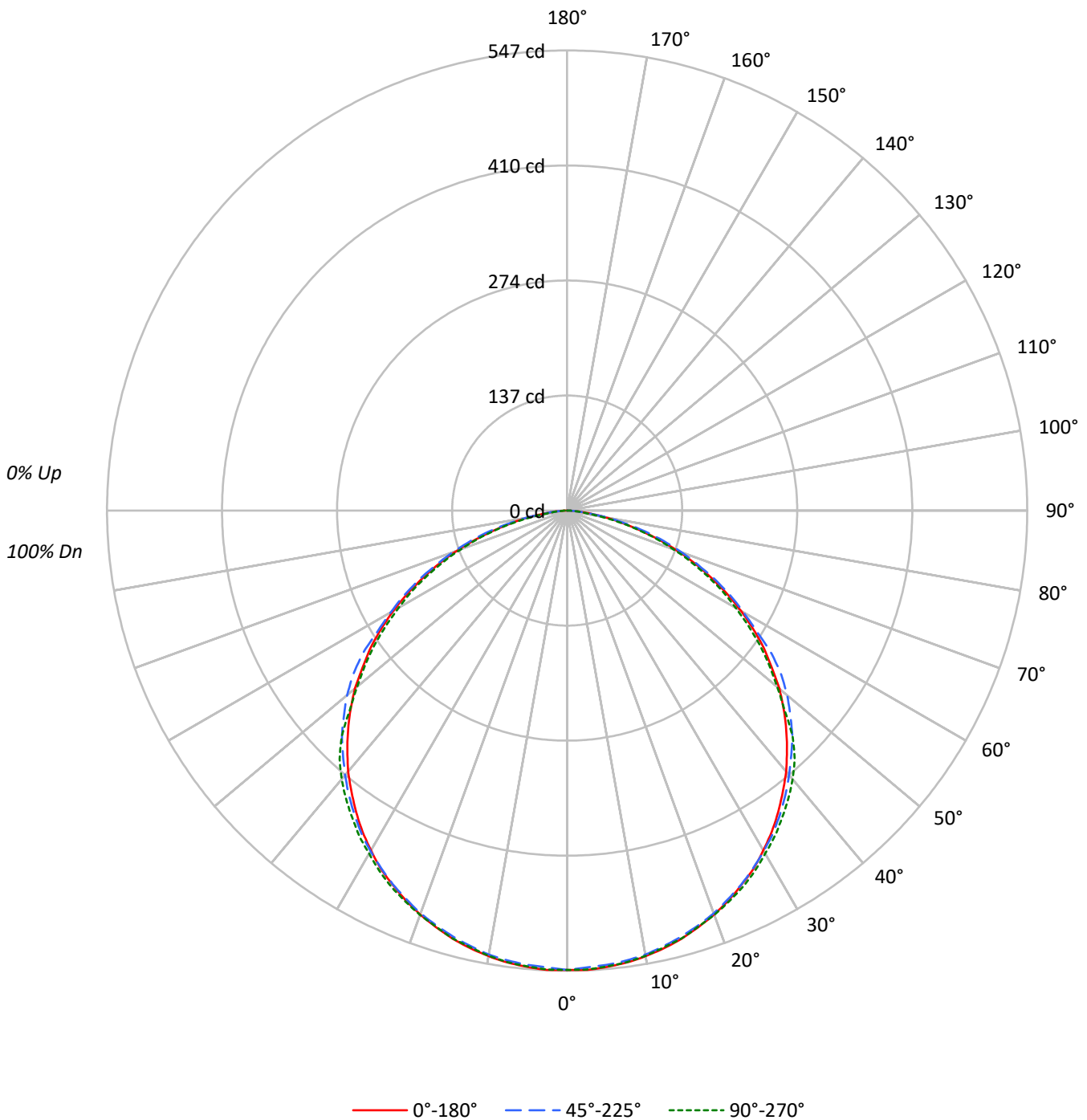
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1469	1469	1469
5°	1471	1464	1469
10°	1470	1464	1468
15°	1468	1460	1466
20°	1463	1459	1465
25°	1457	1455	1466
30°	1449	1452	1463
35°	1437	1449	1464
40°	1423	1442	1465
45°	1402	1441	1443
50°	1379	1430	1364
55°	1340	1393	1314
60°	1284	1303	1245
65°	1202	1235	1170
70°	1094	1138	1058
75°	913	997	897
80°	724	762	621
85°	469	408	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	3.3
10°-20°	148.5	9.5
20°-30°	226.6	14.6
30°-40°	276.3	17.7
40°-50°	289.3	18.6
50°-60°	257.4	16.5
60°-70°	189.9	12.2
70°-80°	98.1	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°	426.8	27.4
0°-40°	703.2	45.2
0°-60°	1249.9	80.3
0°-90°	1557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	546	546	546	546	546	
5°	544	544	542	544	544	52
15°	527	526	524	526	526	149
25°	491	491	490	494	494	226
35°	437	438	441	446	446	274
45°	368	371	379	382	379	284
55°	286	292	297	284	280	255
65°	189	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°	546.0	546.0	546.0	546.0	546.0
2.5°	546.6	546.0	543.5	546.0	546.0
5°	544.5	544.0	542.0	544.0	544.0
7.5°	542.0	541.5	539.4	541.5	541.5
10°	537.9	537.4	535.9	537.9	537.4
12.5°	532.9	532.9	530.3	532.9	531.8
15°	526.8	526.3	524.2	526.3	526.3
17.5°	519.1	518.6	517.1	519.7	518.6
20°	511.0	510.5	509.5	512.0	511.5
22.5°	501.4	501.4	499.9	502.9	502.9
25°	490.7	490.7	490.2	493.8	493.8
27.5°	480.1	479.1	479.1	482.6	483.1
30°	466.4	466.4	467.4	471.4	470.9
32.5°	452.7	453.2	455.2	458.8	459.3
35°	437.4	438.0	441.0	446.1	445.6
37.5°	421.2	422.7	426.3	431.9	431.9
40°	405.0	406.0	410.5	416.6	417.1
42.5°	386.7	389.2	394.3	401.4	400.4
45°	368.4	371.0	378.6	382.1	379.1
47.5°	349.1	352.2	359.8	360.3	350.2
50°	329.4	332.9	341.5	331.4	325.8
52.5°	306.5	313.1	320.7	306.5	303.0
55°	285.7	291.8	296.9	284.2	280.1
57.5°	262.4	270.5	266.9	260.8	255.8
60°	238.5	247.1	242.1	236.0	231.4
62.5°	214.2	223.8	218.7	212.6	208.6
65°	188.8	202.0	193.9	187.3	183.7
67.5°	164.9	177.6	168.0	162.9	159.3
70°	139.0	149.7	144.6	138.0	134.5
72.5°	113.7	121.8	120.3	113.2	110.6
75°	87.8	96.9	95.9	88.3	86.3
77.5°	66.0	74.6	71.6	65.5	62.9
80°	46.7	52.3	49.2	42.1	40.1
82.5°	28.4	33.0	27.9	23.9	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)