

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: P258911

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258911
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-L93050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1541.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

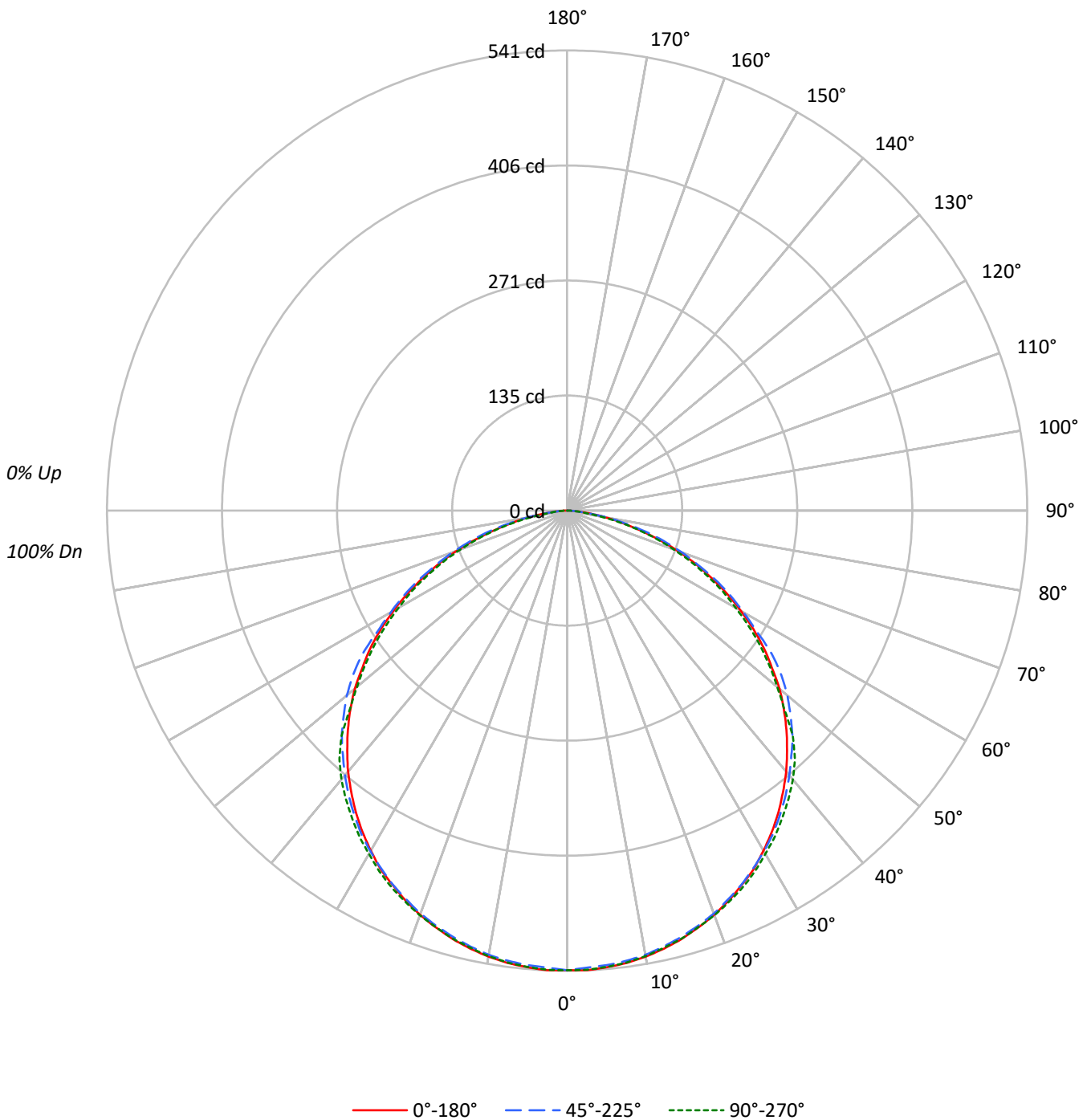
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1454	1454	1454
5°	1456	1449	1454
10°	1455	1449	1453
15°	1452	1445	1451
20°	1448	1444	1450
25°	1442	1441	1451
30°	1434	1437	1448
35°	1422	1434	1449
40°	1408	1427	1450
45°	1388	1426	1428
50°	1365	1415	1350
55°	1327	1378	1301
60°	1271	1290	1232
65°	1189	1222	1158
70°	1083	1126	1047
75°	904	987	888
80°	716	755	615
85°	466	404	358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.3
10°-20°	146.9	9.5
20°-30°	224.3	14.6
30°-40°	273.5	17.7
40°-50°	286.4	18.6
50°-60°	254.8	16.5
60°-70°	188.0	12.2
70°-80°	97.1	6.3
80°-90°	18.9	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°	422.4	27.4
0°-40°	695.9	45.2
0°-60°	1237.1	80.3
0°-90°	1541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	539	538	536	538	538	51
15°	521	521	519	521	521	147
25°	486	486	485	489	489	224
35°	433	434	436	442	441	271
45°	365	367	375	378	375	281
55°	283	289	294	281	277	252
65°	187	200	192	185	182	185
75°	87	96	95	87	85	94
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°	540.4	540.4	540.4	540.4	540.4
2.5°	540.9	540.4	537.9	540.4	540.4
5°	538.9	538.4	536.4	538.4	538.4
7.5°	536.4	535.9	533.9	535.9	535.9
10°	532.4	531.9	530.4	532.4	531.9
12.5°	527.4	527.4	524.9	527.4	526.4
15°	521.3	520.8	518.8	520.8	520.8
17.5°	513.8	513.3	511.8	514.3	513.3
20°	505.8	505.3	504.3	506.8	506.3
22.5°	496.2	496.2	494.7	497.7	497.7
25°	485.7	485.7	485.2	488.7	488.7
27.5°	475.1	474.1	474.1	477.7	478.2
30°	461.6	461.6	462.6	466.6	466.1
32.5°	448.0	448.5	450.5	454.0	454.5
35°	433.0	433.5	436.5	441.5	441.0
37.5°	416.9	418.4	421.9	427.4	427.4
40°	400.8	401.8	406.3	412.4	412.9
42.5°	382.7	385.2	390.3	397.3	396.3
45°	364.6	367.2	374.7	378.2	375.2
47.5°	345.6	348.6	356.1	356.6	346.6
50°	326.0	329.5	338.0	328.0	322.5
52.5°	303.4	309.9	317.4	303.4	299.9
55°	282.8	288.8	293.8	281.3	277.2
57.5°	259.7	267.7	264.2	258.2	253.1
60°	236.1	244.6	239.6	233.6	229.0
62.5°	212.0	221.5	216.5	210.4	206.4
65°	186.8	199.9	191.9	185.3	181.8
67.5°	163.2	175.8	166.2	161.2	157.7
70°	137.6	148.2	143.1	136.6	133.1
72.5°	112.5	120.5	119.0	112.0	109.5
75°	86.9	95.9	94.9	87.4	85.4
77.5°	65.3	73.8	70.8	64.8	62.3
80°	46.2	51.7	48.7	41.7	39.7
82.5°	28.1	32.6	27.6	23.6	21.6
85°	15.1	16.6	13.1	12.1	11.6
87.5°	5.5	5.5	5.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)