

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: P258908

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258908
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1402.0 lumens
Efficiency: N/A
Efficacy: 75.4 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

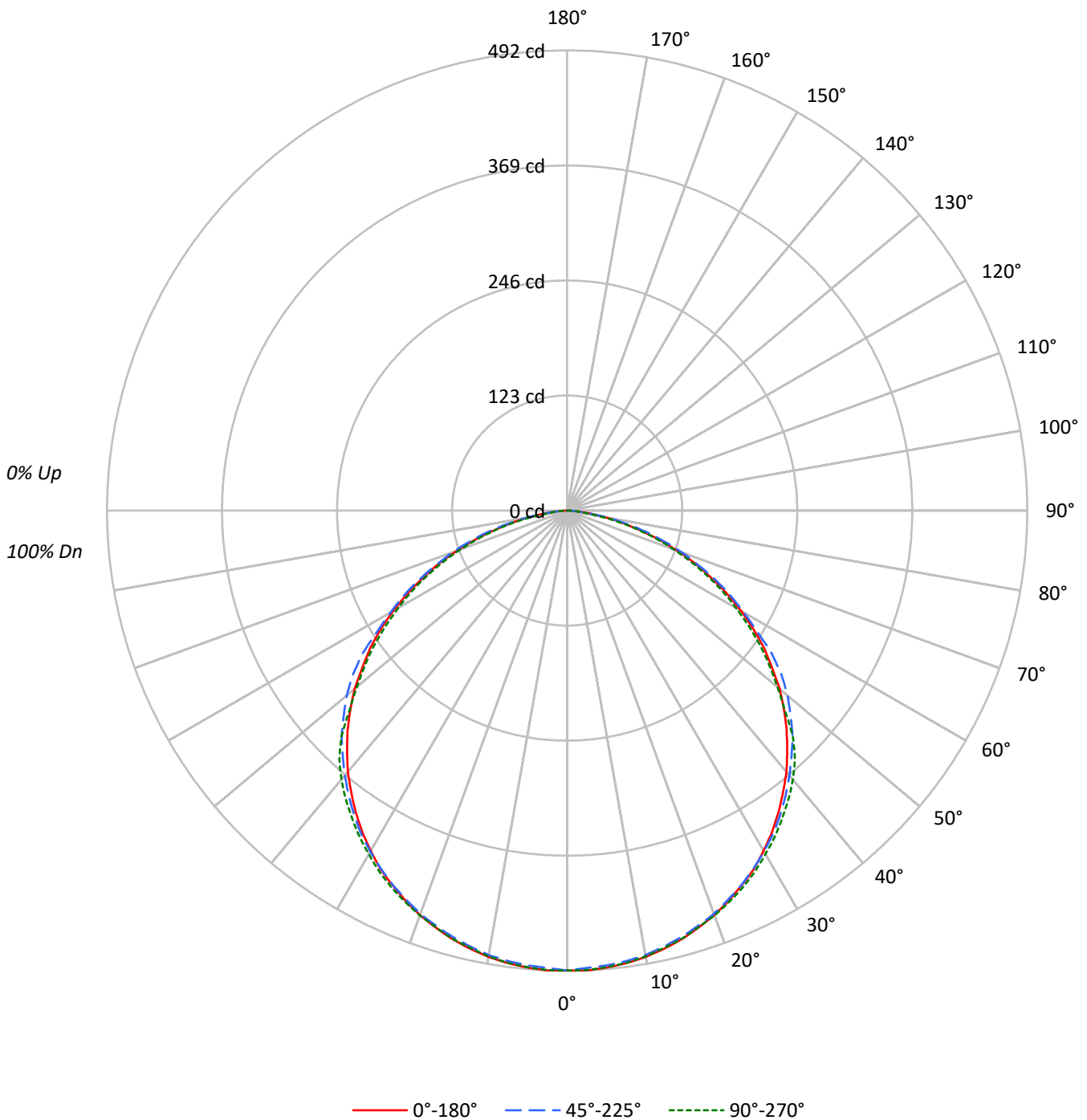
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1323	1323	1323
5°	1324	1318	1323
10°	1324	1318	1322
15°	1321	1315	1320
20°	1318	1314	1319
25°	1312	1311	1320
30°	1305	1308	1318
35°	1294	1305	1318
40°	1281	1299	1319
45°	1263	1297	1299
50°	1242	1287	1228
55°	1207	1254	1183
60°	1156	1173	1122
65°	1082	1112	1053
70°	985	1024	953
75°	822	898	808
80°	651	687	559
85°	423	367	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	3.3
10°-20°	133.7	9.5
20°-30°	204.1	14.6
30°-40°	248.8	17.7
40°-50°	260.5	18.6
50°-60°	231.8	16.5
60°-70°	171.0	12.2
70°-80°	88.4	6.3
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°	384.3	27.4
0°-40°	633.2	45.2
0°-60°	1125.5	80.3
0°-90°	1402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	490	490	488	490	490	47
15°	474	474	472	474	474	134
25°	442	442	441	445	445	204
35°	394	394	397	402	401	246
45°	332	334	341	344	341	256
55°	257	263	267	256	252	229
65°	170	182	175	169	165	169
75°	79	87	86	80	78	85
85°	14	15	12	11	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.7	491.7	491.7	491.7	491.7
2.5°	492.1	491.7	489.4	491.7	491.7
5°	490.3	489.9	488.0	489.9	489.9
7.5°	488.0	487.6	485.7	487.6	487.6
10°	484.4	483.9	482.5	484.4	483.9
12.5°	479.8	479.8	477.5	479.8	478.9
15°	474.3	473.9	472.0	473.9	473.9
17.5°	467.5	467.0	465.6	467.9	467.0
20°	460.2	459.7	458.8	461.1	460.6
22.5°	451.5	451.5	450.1	452.8	452.8
25°	441.9	441.9	441.4	444.6	444.6
27.5°	432.3	431.4	431.4	434.6	435.0
30°	419.9	419.9	420.9	424.5	424.1
32.5°	407.6	408.1	409.9	413.1	413.5
35°	393.9	394.4	397.1	401.7	401.2
37.5°	379.3	380.6	383.8	388.9	388.9
40°	364.7	365.6	369.7	375.2	375.6
42.5°	348.2	350.5	355.1	361.5	360.5
45°	331.8	334.0	340.9	344.1	341.3
47.5°	314.4	317.1	324.0	324.4	315.3
50°	296.6	299.8	307.5	298.4	293.4
52.5°	276.0	281.9	288.8	276.0	272.8
55°	257.3	262.8	267.3	255.9	252.2
57.5°	236.2	243.6	240.4	234.9	230.3
60°	214.8	222.5	218.0	212.5	208.4
62.5°	192.8	201.5	196.9	191.5	187.8
65°	170.0	181.9	174.6	168.6	165.4
67.5°	148.5	159.9	151.3	146.7	143.5
70°	125.2	134.8	130.2	124.3	121.1
72.5°	102.4	109.7	108.3	101.9	99.6
75°	79.1	87.3	86.4	79.5	77.7
77.5°	59.4	67.2	64.4	58.9	56.7
80°	42.0	47.1	44.3	37.9	36.1
82.5°	25.6	29.7	25.1	21.5	19.6
85°	13.7	15.1	11.9	11.0	10.5
87.5°	5.0	5.0	5.0	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)