

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: P258870

Luminaire Tested: **14CZ-LD5-44-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4193.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

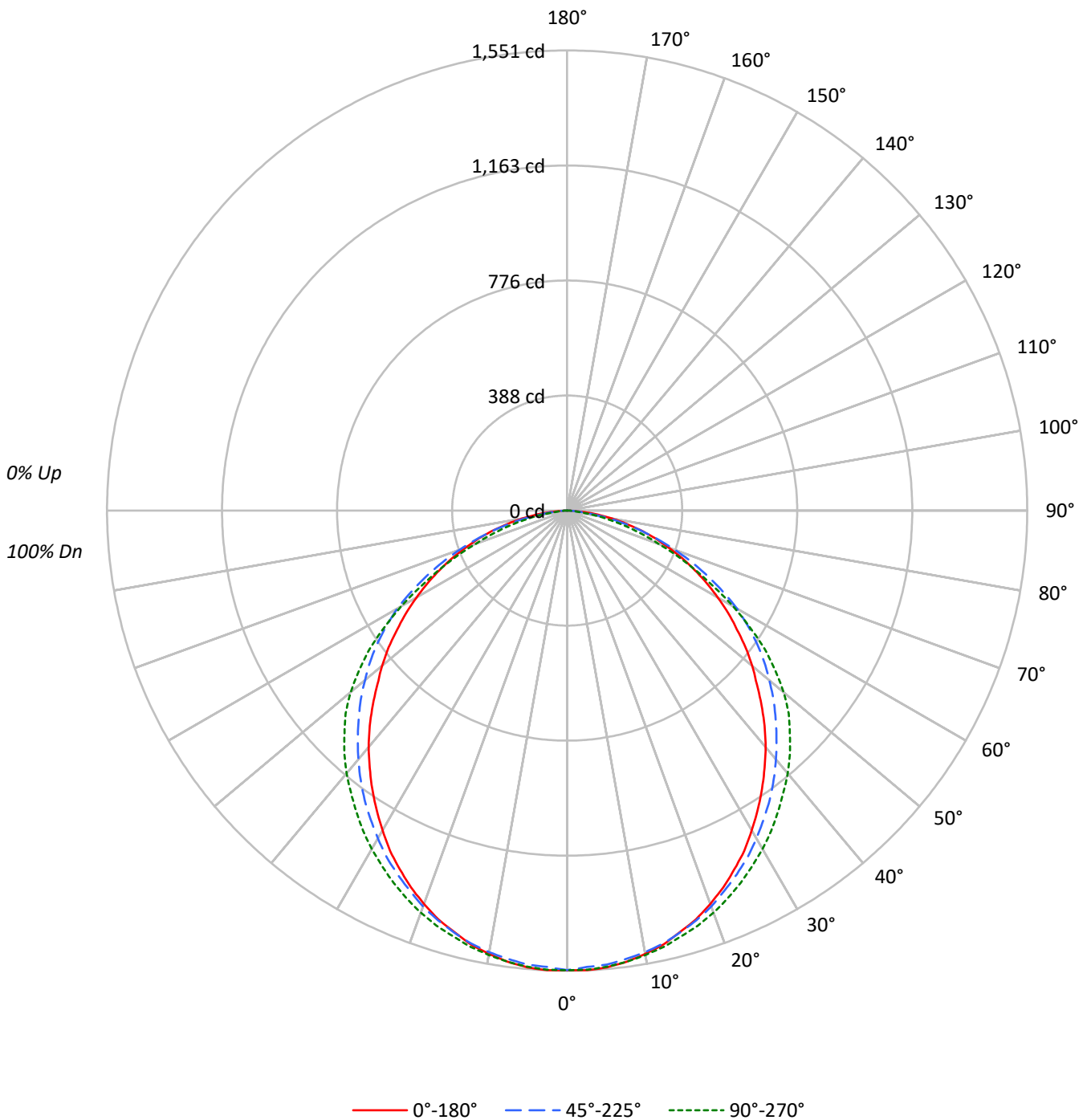
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4168	4168	4168
5°	4174	4149	4169
10°	4145	4130	4156
15°	4096	4102	4138
20°	4040	4066	4131
25°	3961	4016	4111
30°	3866	3965	4093
35°	3762	3910	4069
40°	3656	3846	4063
45°	3527	3783	4039
50°	3410	3723	3989
55°	3278	3664	3813
60°	3158	3560	3479
65°	3022	3331	3058
70°	2852	3028	2587
75°	2662	2622	2137
80°	2345	2027	1564
85°	1846	982	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	3.5
10°-20°	417.0	9.9
20°-30°	625.7	14.9
30°-40°	746.0	17.8
40°-50°	768.4	18.3
50°-60°	684.8	16.3
60°-70°	493.4	11.8
70°-80°	258.0	6.2
80°-90°	53.4	1.3
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°	1189.0	28.4
0°-40°	1935.0	46.1
0°-60°	3388.2	80.8
0°-90°	4193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1545	1541	1536	1545	1543	147
15°	1470	1472	1472	1487	1485	415
25°	1334	1342	1353	1379	1384	614
35°	1145	1160	1190	1229	1239	716
45°	927	947	994	1050	1061	715
55°	699	721	781	816	813	627
65°	475	491	523	499	480	470
75°	256	269	252	219	206	271
85°	60	52	32	28	28	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.9	1548.9	1548.9	1548.9	1548.9
2.5°	1550.8	1547.0	1539.6	1548.9	1548.9
5°	1545.2	1541.4	1535.8	1545.2	1543.3
7.5°	1533.9	1530.2	1524.6	1535.8	1533.9
10°	1517.1	1515.3	1511.5	1522.7	1520.9
12.5°	1498.4	1496.6	1494.7	1505.9	1505.9
15°	1470.4	1472.3	1472.3	1487.2	1485.4
17.5°	1444.3	1446.1	1448.0	1466.7	1466.7
20°	1410.6	1412.5	1420.0	1440.5	1442.4
22.5°	1375.1	1377.0	1386.3	1410.6	1414.4
25°	1334.0	1341.5	1352.7	1378.9	1384.5
27.5°	1292.9	1298.5	1317.2	1347.1	1350.8
30°	1244.3	1255.6	1276.1	1309.7	1317.2
32.5°	1195.8	1208.8	1233.1	1270.5	1279.8
35°	1145.3	1160.3	1190.2	1229.4	1238.7
37.5°	1093.0	1106.1	1143.5	1184.6	1197.6
40°	1040.7	1053.8	1094.9	1141.6	1156.5
42.5°	984.6	1003.3	1044.4	1096.7	1111.7
45°	926.7	947.3	994.0	1050.0	1061.2
47.5°	866.9	889.4	943.5	999.6	1012.7
50°	814.6	835.2	889.4	943.5	952.9
52.5°	758.6	777.3	837.0	881.9	883.7
55°	698.8	721.2	781.0	816.5	812.7
57.5°	644.6	663.3	721.2	739.9	728.7
60°	586.7	603.5	661.4	663.3	646.5
62.5°	530.6	547.4	592.3	579.2	558.6
65°	474.6	491.4	523.1	498.9	480.2
67.5°	420.4	435.3	454.0	422.3	403.6
70°	362.5	383.0	384.9	347.5	328.8
72.5°	312.0	323.2	319.5	284.0	267.2
75°	256.0	269.0	252.2	218.6	205.5
77.5°	203.7	213.0	190.6	158.8	149.5
80°	151.3	156.9	130.8	106.5	100.9
82.5°	102.8	102.8	74.7	57.9	52.3
85°	59.8	52.3	31.8	28.0	28.0
87.5°	20.6	13.1	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)