

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: P258815

Luminaire Tested: **14CZ-LD5-44-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258815
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-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4626.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

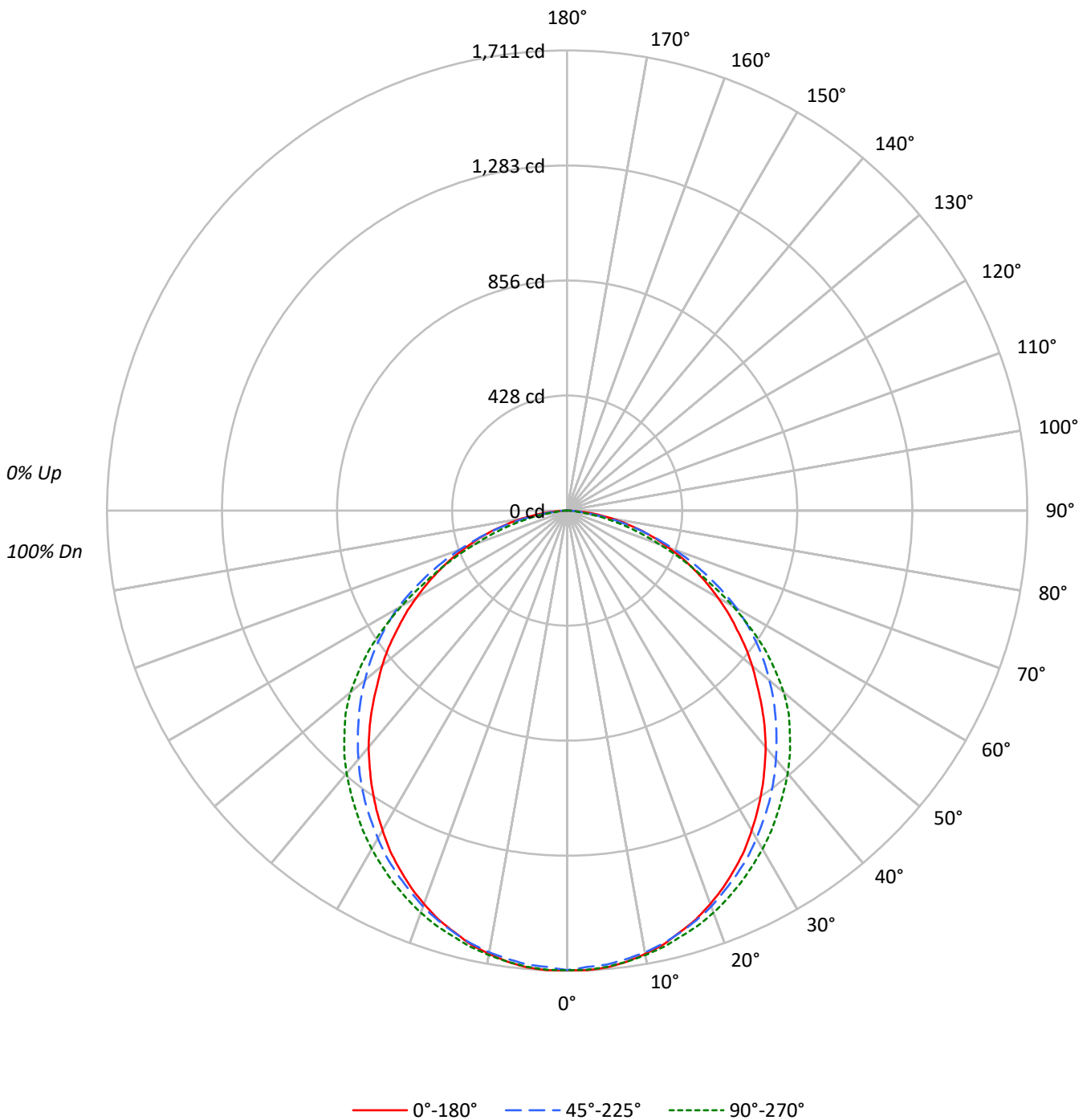
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4598	4598	4598
5°	4605	4577	4599
10°	4574	4557	4585
15°	4520	4525	4566
20°	4457	4486	4557
25°	4370	4431	4535
30°	4266	4375	4515
35°	4151	4314	4490
40°	4033	4243	4482
45°	3891	4173	4456
50°	3762	4108	4401
55°	3617	4042	4207
60°	3484	3927	3838
65°	3334	3675	3373
70°	3146	3341	2854
75°	2936	2894	2357
80°	2588	2236	1725
85°	2038	1081	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	3.5
10°-20°	460.0	9.9
20°-30°	690.3	14.9
30°-40°	823.0	17.8
40°-50°	847.7	18.3
50°-60°	755.5	16.3
60°-70°	544.4	11.8
70°-80°	284.7	6.2
80°-90°	58.9	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°	1311.8	28.4
0°-40°	2134.8	46.1
0°-60°	3738.1	80.8
0°-90°	4626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1705	1701	1694	1705	1703	162
15°	1622	1624	1624	1641	1639	458
25°	1472	1480	1492	1521	1527	678
35°	1264	1280	1313	1356	1367	790
45°	1022	1045	1097	1158	1171	789
55°	771	796	862	901	897	691
65°	524	542	577	550	530	519
75°	282	297	278	241	227	299
85°	66	58	35	31	31	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.8	1708.8	1708.8	1708.8	1708.8
2.5°	1710.9	1706.8	1698.5	1708.8	1708.8
5°	1704.7	1700.6	1694.4	1704.7	1702.7
7.5°	1692.4	1688.2	1682.0	1694.4	1692.4
10°	1673.8	1671.7	1667.6	1680.0	1677.9
12.5°	1653.2	1651.1	1649.1	1661.4	1661.4
15°	1622.3	1624.3	1624.3	1640.8	1638.8
17.5°	1593.4	1595.5	1597.5	1618.1	1618.1
20°	1556.3	1558.4	1566.6	1589.3	1591.3
22.5°	1517.1	1519.2	1529.5	1556.3	1560.4
25°	1471.8	1480.0	1492.4	1521.3	1527.4
27.5°	1426.4	1432.6	1453.2	1486.2	1490.3
30°	1372.8	1385.2	1407.9	1445.0	1453.2
32.5°	1319.3	1333.7	1360.5	1401.7	1412.0
35°	1263.6	1280.1	1313.1	1356.4	1366.7
37.5°	1205.9	1220.3	1261.5	1306.9	1321.3
40°	1148.2	1162.6	1207.9	1259.5	1276.0
42.5°	1086.3	1106.9	1152.3	1210.0	1226.5
45°	1022.4	1045.1	1096.6	1158.5	1170.8
47.5°	956.5	981.2	1041.0	1102.8	1117.2
50°	898.7	921.4	981.2	1041.0	1051.3
52.5°	836.9	857.5	923.5	972.9	975.0
55°	770.9	795.7	861.6	900.8	896.7
57.5°	711.2	731.8	795.7	816.3	803.9
60°	647.3	665.8	729.7	731.8	713.2
62.5°	585.4	604.0	653.4	639.0	616.3
65°	523.6	542.1	577.2	550.4	529.8
67.5°	463.8	480.3	500.9	465.9	445.2
70°	399.9	422.6	424.6	383.4	362.8
72.5°	344.2	356.6	352.5	313.3	294.8
75°	282.4	296.8	278.3	241.2	226.7
77.5°	224.7	235.0	210.3	175.2	164.9
80°	167.0	173.2	144.3	117.5	111.3
82.5°	113.4	113.4	82.5	63.9	57.7
85°	66.0	57.7	35.0	30.9	30.9
87.5°	22.7	14.4	14.4	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)