

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: P258642

Luminaire Tested: **14CZ-LD5-44-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-UNV-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4117.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

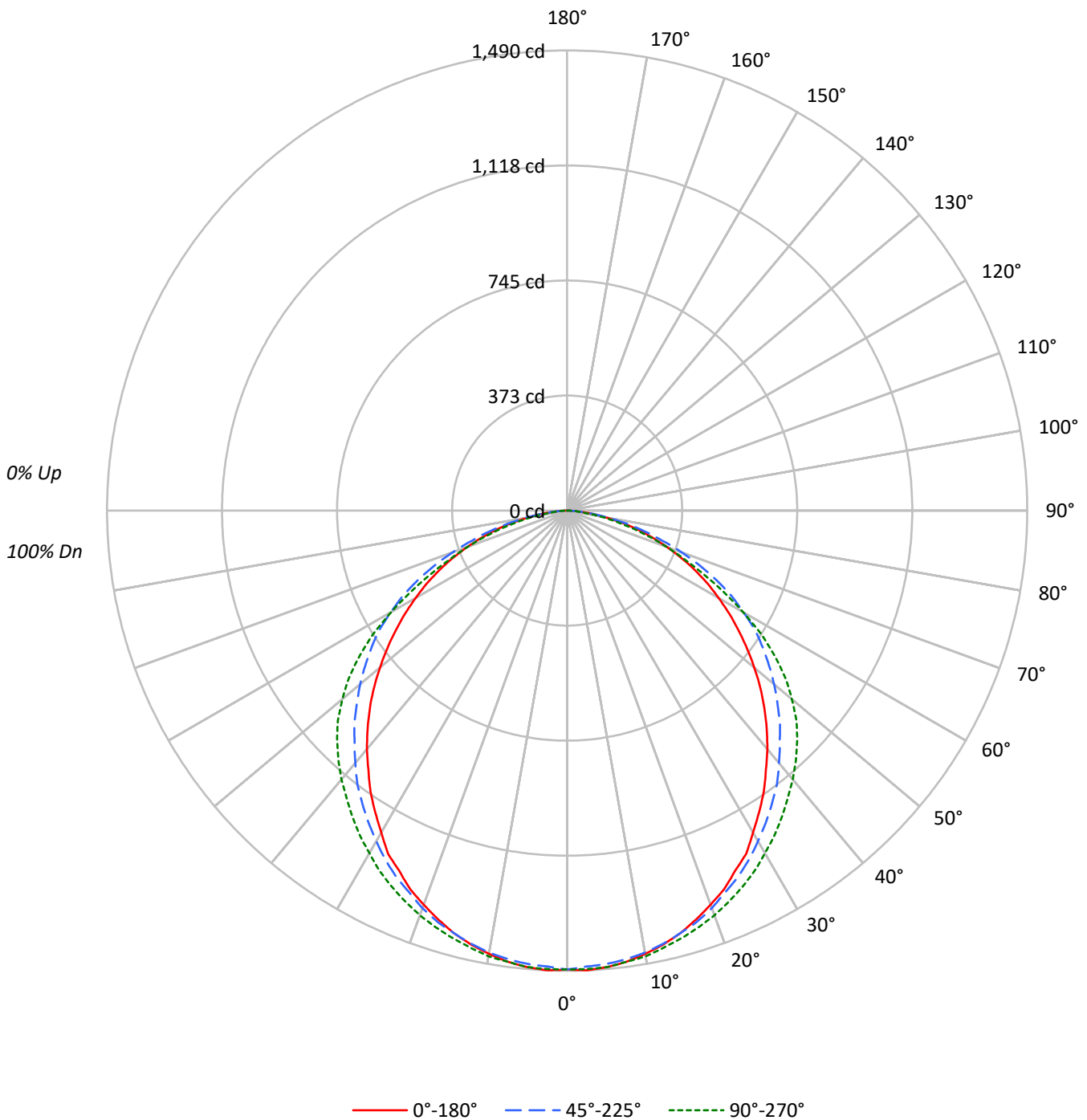
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3998	3998	3998
5°	4008	3980	4008
10°	3982	3971	4004
15°	3947	3947	3992
20°	3888	3923	3993
25°	3821	3887	3989
30°	3740	3841	3979
35°	3647	3801	3981
40°	3543	3750	3993
45°	3437	3707	4009
50°	3314	3662	3977
55°	3180	3628	3847
60°	3048	3550	3539
65°	2908	3399	3102
70°	2699	3098	2683
75°	2447	2701	2216
80°	1949	2139	1635
85°	1380	1192	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	3.4
10°-20°	401.6	9.8
20°-30°	605.5	14.7
30°-40°	725.8	17.6
40°-50°	753.2	18.3
50°-60°	679.3	16.5
60°-70°	495.6	12.0
70°-80°	260.0	6.3
80°-90°	55.5	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°	1147.7	27.9
0°-40°	1873.4	45.5
0°-60°	3306.0	80.3
0°-90°	4117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1484	1480	1474	1484	1484	141
15°	1417	1417	1417	1433	1433	399
25°	1287	1293	1309	1338	1344	594
35°	1110	1122	1157	1200	1212	693
45°	903	922	974	1033	1053	696
55°	678	702	773	824	820	607
65°	457	483	534	514	487	451
75°	235	268	260	225	213	247
85°	45	55	39	32	30	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.7	1485.7	1485.7	1485.7	1485.7
2.5°	1489.8	1485.7	1477.6	1485.7	1485.7
5°	1483.7	1479.6	1473.5	1483.7	1483.7
7.5°	1473.5	1469.5	1465.4	1475.6	1473.5
10°	1457.3	1455.3	1453.2	1465.4	1465.4
12.5°	1439.0	1439.0	1437.0	1451.2	1449.2
15°	1416.7	1416.7	1416.7	1432.9	1432.9
17.5°	1388.3	1392.3	1396.4	1414.7	1414.7
20°	1357.8	1361.9	1370.0	1392.3	1394.4
22.5°	1327.4	1329.4	1337.5	1363.9	1370.0
25°	1286.8	1292.9	1309.1	1337.5	1343.6
27.5°	1254.3	1256.4	1274.6	1307.1	1315.2
30°	1203.6	1217.8	1236.1	1272.6	1280.7
32.5°	1156.9	1169.1	1197.5	1236.1	1248.2
35°	1110.2	1122.4	1156.9	1199.5	1211.7
37.5°	1057.5	1075.7	1116.3	1158.9	1173.1
40°	1008.7	1025.0	1067.6	1120.4	1136.6
42.5°	956.0	972.2	1018.9	1077.7	1096.0
45°	903.2	921.5	974.2	1033.1	1053.4
47.5°	848.4	868.7	923.5	988.4	1006.7
50°	791.6	813.9	874.8	941.8	949.9
52.5°	734.7	759.1	824.0	882.9	891.0
55°	677.9	702.3	773.3	824.0	820.0
57.5°	623.1	649.5	722.6	748.9	744.9
60°	566.3	594.7	659.6	671.8	657.6
62.5°	513.5	539.9	600.8	590.6	572.4
65°	456.7	483.1	533.8	513.5	487.1
67.5°	399.8	432.3	464.8	430.3	410.0
70°	343.0	379.5	393.8	359.2	341.0
72.5°	288.2	326.8	322.7	288.2	276.0
75°	235.4	267.9	259.8	225.3	213.1
77.5°	178.6	215.1	196.9	168.5	158.3
80°	125.8	158.3	138.0	113.7	105.5
82.5°	83.2	105.5	85.2	67.0	60.9
85°	44.7	54.8	38.6	32.5	30.4
87.5°	18.3	16.2	14.2	14.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)