

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: P258646

Luminaire Tested: **14CZ-LD5-44-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258646
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-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4490.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

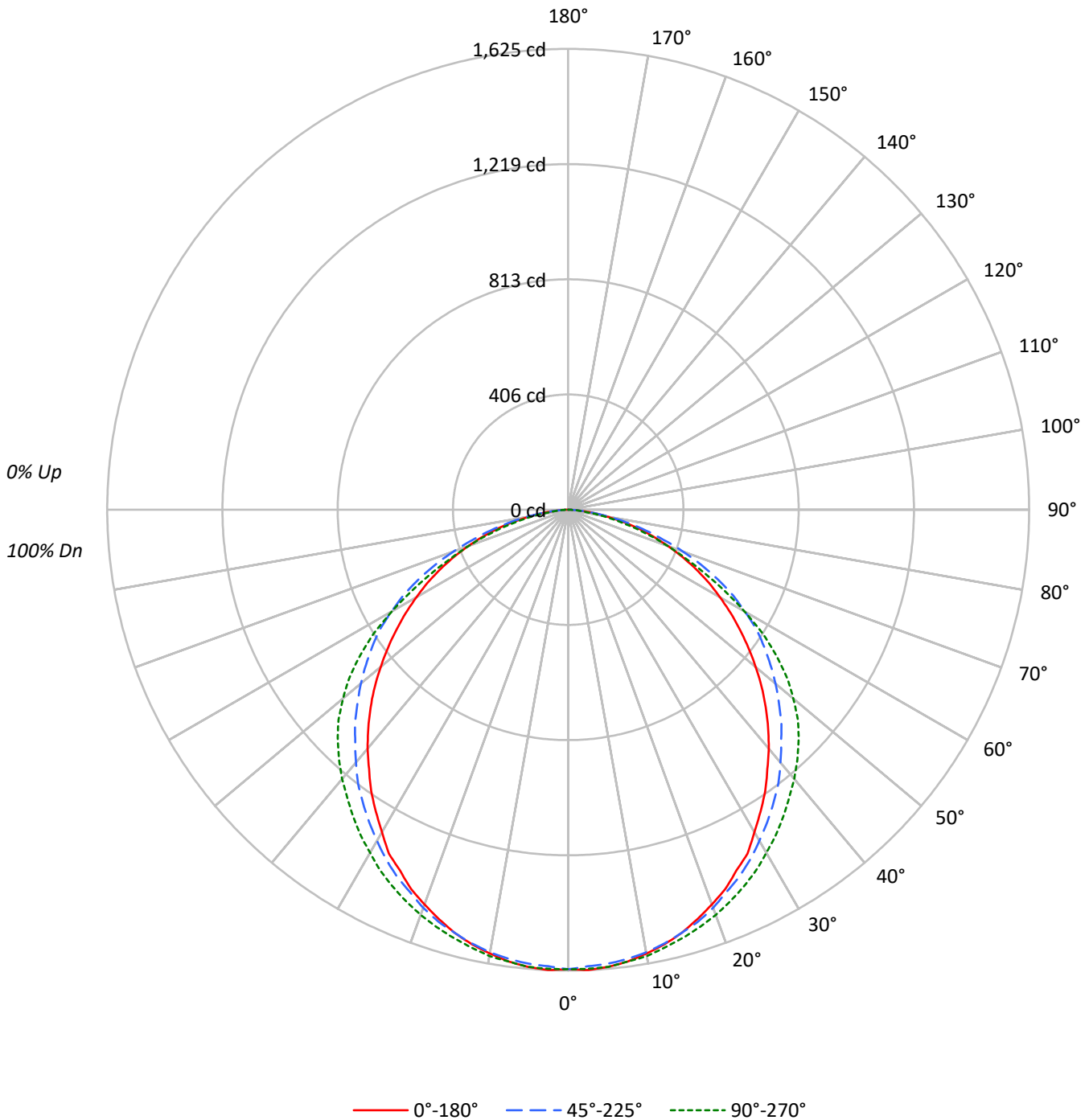
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4360	4360	4360
5°	4371	4341	4371
10°	4343	4331	4367
15°	4305	4305	4354
20°	4241	4279	4355
25°	4167	4239	4351
30°	4079	4189	4340
35°	3978	4145	4341
40°	3864	4090	4354
45°	3749	4043	4372
50°	3614	3994	4337
55°	3468	3957	4196
60°	3324	3872	3860
65°	3171	3707	3383
70°	2943	3378	2926
75°	2670	2946	2416
80°	2126	2332	1784
85°	1504	1300	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	3.4
10°-20°	438.0	9.8
20°-30°	660.4	14.7
30°-40°	791.5	17.6
40°-50°	821.4	18.3
50°-60°	740.9	16.5
60°-70°	540.4	12.0
70°-80°	283.6	6.3
80°-90°	60.5	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°	1251.6	27.9
0°-40°	2043.2	45.5
0°-60°	3605.5	80.3
0°-90°	4490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1618	1614	1607	1618	1618	154
15°	1545	1545	1545	1563	1563	435
25°	1403	1410	1428	1459	1465	648
35°	1211	1224	1262	1308	1322	756
45°	985	1005	1062	1127	1149	759
55°	739	766	843	899	894	662
65°	498	527	582	560	531	492
75°	257	292	283	246	232	269
85°	49	60	42	35	33	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.3	1620.3	1620.3	1620.3	1620.3
2.5°	1624.7	1620.3	1611.5	1620.3	1620.3
5°	1618.1	1613.7	1607.0	1618.1	1618.1
7.5°	1607.0	1602.6	1598.2	1609.2	1607.0
10°	1589.3	1587.1	1584.9	1598.2	1598.2
12.5°	1569.4	1569.4	1567.2	1582.7	1580.5
15°	1545.1	1545.1	1545.1	1562.8	1562.8
17.5°	1514.1	1518.5	1522.9	1542.8	1542.8
20°	1480.9	1485.3	1494.1	1518.5	1520.7
22.5°	1447.7	1449.9	1458.7	1487.5	1494.1
25°	1403.4	1410.0	1427.7	1458.7	1465.4
27.5°	1368.0	1370.2	1390.1	1425.5	1434.4
30°	1312.6	1328.1	1348.0	1387.9	1396.7
32.5°	1261.7	1275.0	1306.0	1348.0	1361.3
35°	1210.8	1224.1	1261.7	1308.2	1321.5
37.5°	1153.3	1173.2	1217.4	1263.9	1279.4
40°	1100.1	1117.8	1164.3	1221.9	1239.6
42.5°	1042.6	1060.3	1111.2	1175.4	1195.3
45°	985.0	1004.9	1062.5	1126.7	1148.8
47.5°	925.3	947.4	1007.2	1078.0	1097.9
50°	863.3	887.6	954.0	1027.1	1035.9
52.5°	801.3	827.9	898.7	962.9	971.7
55°	739.3	765.9	843.4	898.7	894.3
57.5°	679.6	708.3	788.0	816.8	812.4
60°	617.6	648.6	719.4	732.7	717.2
62.5°	560.0	588.8	655.2	644.1	624.2
65°	498.0	526.8	582.2	560.0	531.3
67.5°	436.1	471.5	506.9	469.3	447.1
70°	374.1	413.9	429.4	391.8	371.9
72.5°	314.3	356.4	352.0	314.3	301.0
75°	256.8	292.2	283.3	245.7	232.4
77.5°	194.8	234.6	214.7	183.7	172.7
80°	137.2	172.7	150.5	124.0	115.1
82.5°	90.8	115.1	93.0	73.0	66.4
85°	48.7	59.8	42.1	35.4	33.2
87.5°	19.9	17.7	15.5	15.5	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)