

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: P258805

Luminaire Tested: **14CZ-LD5-39-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258805
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-LD5-39-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4097.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

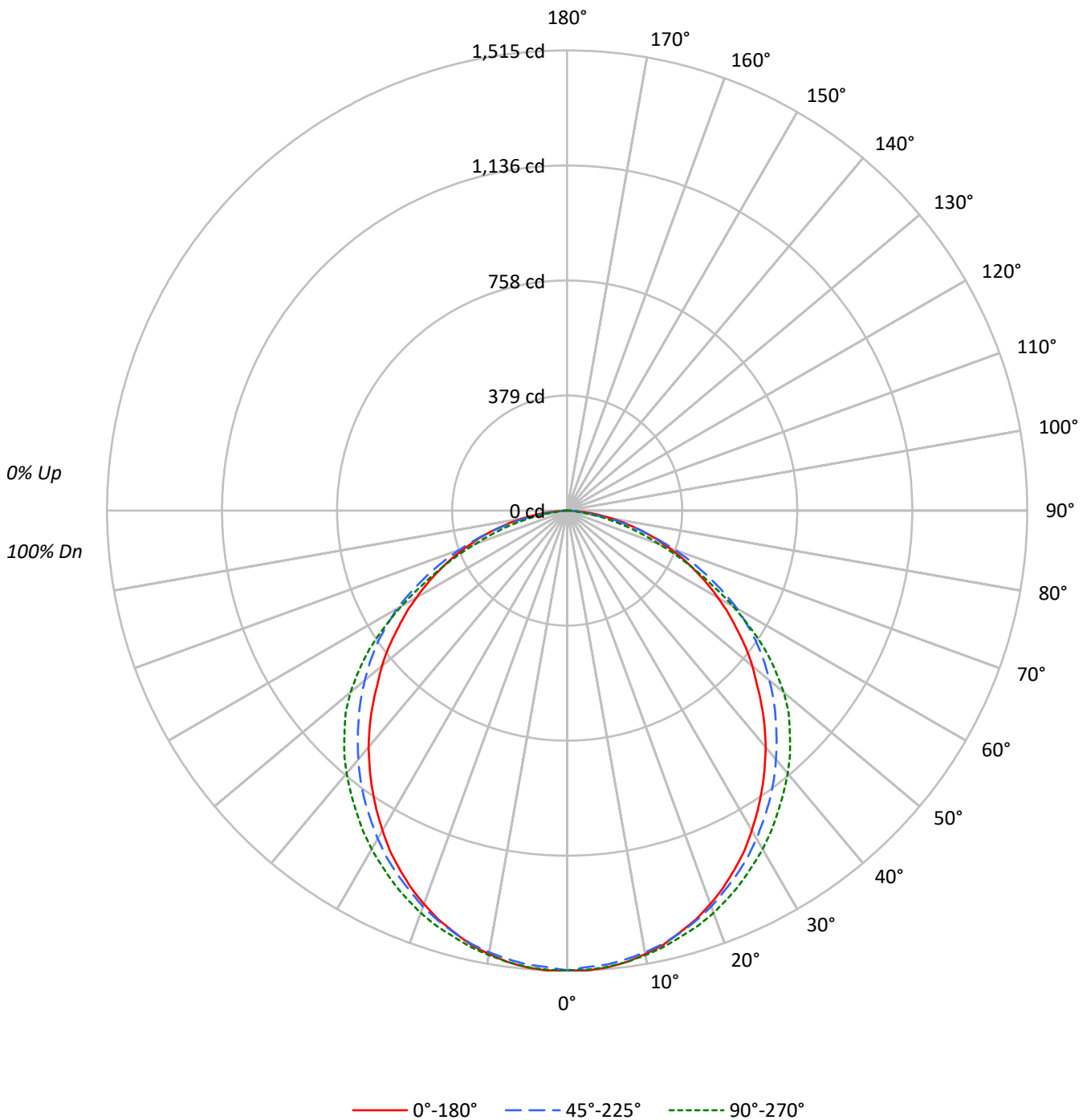
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4073	4073	4073
5°	4078	4054	4073
10°	4051	4036	4060
15°	4003	4008	4043
20°	3947	3973	4036
25°	3870	3924	4017
30°	3778	3874	3999
35°	3676	3820	3976
40°	3572	3758	3970
45°	3446	3696	3946
50°	3332	3638	3898
55°	3203	3580	3726
60°	3085	3478	3400
65°	2953	3255	2988
70°	2787	2959	2528
75°	2600	2563	2088
80°	2292	1980	1528
85°	1803	957	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	3.5
10°-20°	407.4	9.9
20°-30°	611.4	14.9
30°-40°	728.9	17.8
40°-50°	750.8	18.3
50°-60°	669.1	16.3
60°-70°	482.1	11.8
70°-80°	252.2	6.2
80°-90°	52.2	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°	1161.8	28.4
0°-40°	1890.7	46.1
0°-60°	3310.6	80.8
0°-90°	4097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1510	1506	1501	1510	1508	143
15°	1437	1439	1439	1453	1451	405
25°	1304	1311	1322	1347	1353	600
35°	1119	1134	1163	1201	1210	700
45°	906	926	971	1026	1037	699
55°	683	705	763	798	794	612
65°	464	480	511	487	469	459
75°	250	263	246	214	201	265
85°	58	51	31	27	27	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.4	1513.4	1513.4	1513.4	1513.4
2.5°	1515.3	1511.6	1504.3	1513.4	1513.4
5°	1509.8	1506.1	1500.7	1509.8	1508.0
7.5°	1498.8	1495.2	1489.7	1500.7	1498.8
10°	1482.4	1480.6	1476.9	1487.9	1486.0
12.5°	1464.1	1462.3	1460.5	1471.4	1471.4
15°	1436.8	1438.6	1438.6	1453.2	1451.4
17.5°	1411.2	1413.0	1414.9	1433.1	1433.1
20°	1378.3	1380.2	1387.5	1407.5	1409.4
22.5°	1343.7	1345.5	1354.6	1378.3	1382.0
25°	1303.5	1310.8	1321.7	1347.3	1352.8
27.5°	1263.3	1268.8	1287.1	1316.3	1319.9
30°	1215.9	1226.8	1246.9	1279.8	1287.1
32.5°	1168.4	1181.2	1204.9	1241.4	1250.5
35°	1119.1	1133.7	1162.9	1201.3	1210.4
37.5°	1068.0	1080.8	1117.3	1157.4	1170.2
40°	1016.9	1029.6	1069.8	1115.4	1130.1
42.5°	962.1	980.4	1020.5	1071.6	1086.2
45°	905.5	925.6	971.2	1026.0	1036.9
47.5°	847.1	869.0	921.9	976.7	989.5
50°	796.0	816.0	869.0	921.9	931.1
52.5°	741.2	759.5	817.9	861.7	863.5
55°	682.8	704.7	763.1	797.8	794.1
57.5°	629.8	648.1	704.7	722.9	712.0
60°	573.2	589.7	646.3	648.1	631.7
62.5°	518.5	534.9	578.7	565.9	545.9
65°	463.7	480.1	511.2	487.4	469.2
67.5°	410.8	425.4	443.6	412.6	394.3
70°	354.2	374.3	376.1	339.6	321.3
72.5°	304.9	315.8	312.2	277.5	261.1
75°	250.1	262.9	246.5	213.6	200.8
77.5°	199.0	208.1	186.2	155.2	146.0
80°	147.9	153.4	127.8	104.1	98.6
82.5°	100.4	100.4	73.0	56.6	51.1
85°	58.4	51.1	31.0	27.4	27.4
87.5°	20.1	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)