

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: P259373

Luminaire Tested: **22CZ-LD5-44-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4147.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

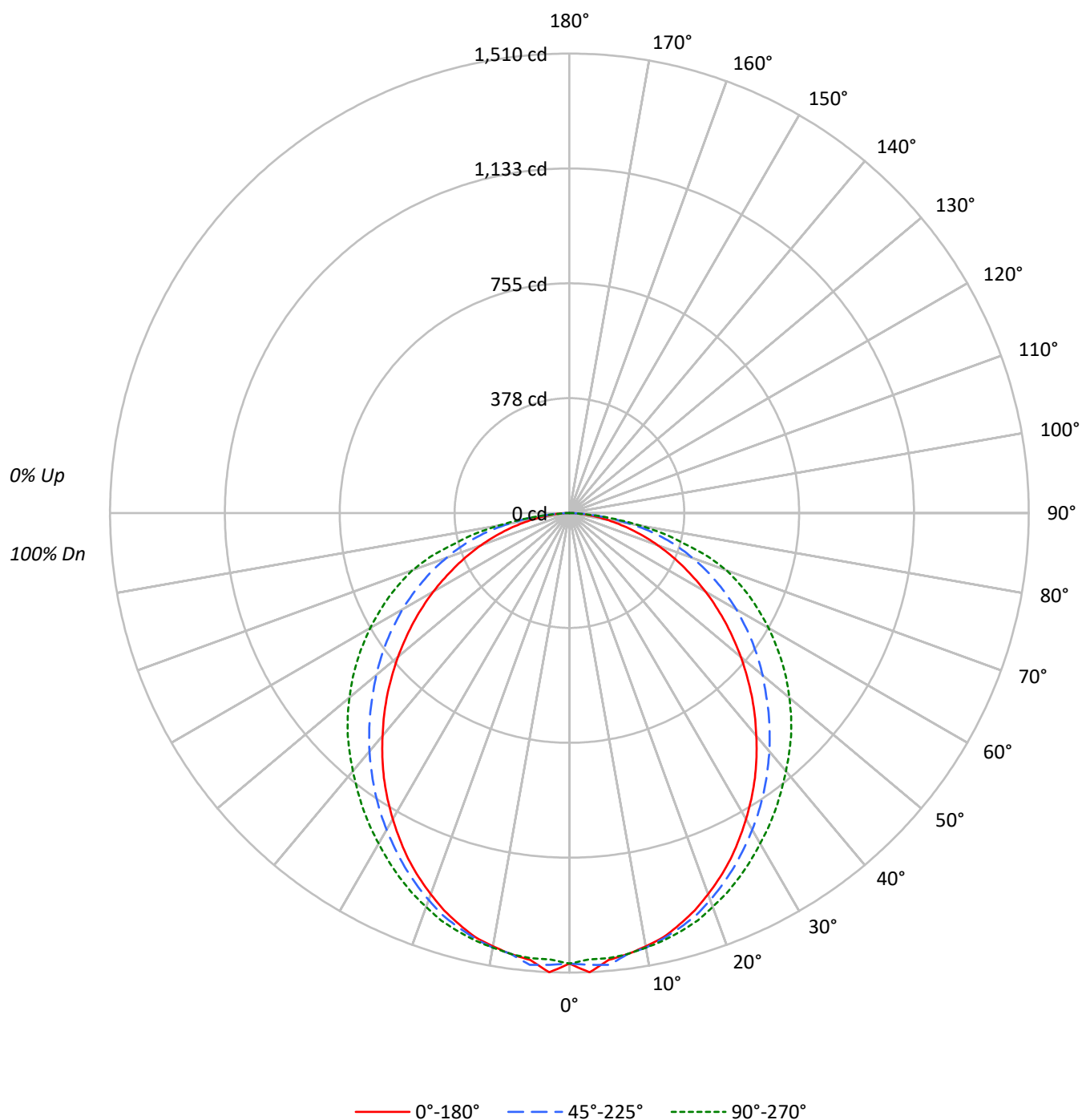
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3983	3983	3983
5°	3982	4026	3966
10°	3951	3962	3962
15°	3899	3927	3961
20°	3817	3875	3944
25°	3724	3808	3922
30°	3609	3735	3897
35°	3491	3664	3889
40°	3358	3592	3889
45°	3223	3522	3922
50°	3082	3470	3951
55°	2933	3434	4002
60°	2779	3408	4070
65°	2607	3390	4173
70°	2427	3379	4316
75°	2201	3376	4088
80°	1906	3126	3625
85°	1618	2365	2303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.4
10°-20°	397.7	9.6
20°-30°	591.6	14.3
30°-40°	699.7	16.9
40°-50°	719.1	17.3
50°-60°	657.1	15.8
60°-70°	525.7	12.7
70°-80°	329.9	8.0
80°-90°	85.9	2.1
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°	1129.6	27.2
0°-40°	1829.3	44.1
0°-60°	3205.5	77.3
0°-90°	4147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1474	1474	1490	1480	1468	140
15°	1400	1402	1410	1418	1422	394
25°	1254	1262	1283	1305	1321	577
35°	1063	1077	1115	1158	1184	664
45°	847	869	926	994	1030	653
55°	625	655	732	813	853	559
65°	409	446	532	613	655	406
75°	212	252	325	373	393	225
85°	52	66	77	75	75	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1480.2	1480.2	1480.2	1480.2	1480.2
2.5°	1510.5	1504.4	1486.3	1474.2	1468.1
5°	1474.2	1474.2	1490.3	1480.2	1468.1
7.5°	1462.1	1462.1	1462.1	1492.3	1462.1
10°	1445.9	1447.9	1450.0	1462.1	1450.0
12.5°	1427.8	1427.8	1431.8	1435.8	1437.9
15°	1399.5	1401.6	1409.6	1417.7	1421.7
17.5°	1369.3	1375.3	1385.4	1395.5	1403.6
20°	1333.0	1341.1	1353.2	1369.3	1377.4
22.5°	1294.7	1302.7	1318.9	1337.0	1351.1
25°	1254.3	1262.4	1282.6	1304.8	1320.9
27.5°	1208.0	1218.0	1242.2	1272.5	1288.6
30°	1161.6	1173.7	1201.9	1236.2	1254.3
32.5°	1113.2	1127.3	1159.6	1197.9	1220.1
35°	1062.8	1076.9	1115.2	1157.5	1183.8
37.5°	1010.3	1026.5	1068.8	1117.2	1145.4
40°	955.9	974.0	1022.4	1074.9	1107.1
42.5°	901.4	921.6	974.0	1036.5	1068.8
45°	847.0	869.2	925.6	994.2	1030.5
47.5°	790.5	816.7	875.2	951.8	988.1
50°	736.1	762.3	828.8	907.5	943.8
52.5°	679.6	709.9	780.4	861.1	899.4
55°	625.2	655.4	732.0	812.7	853.0
57.5°	570.7	601.0	681.6	764.3	804.6
60°	516.3	548.5	633.2	713.9	756.2
62.5°	461.8	496.1	582.8	665.5	705.8
65°	409.4	445.7	532.4	613.1	655.4
67.5°	359.0	397.3	482.0	560.6	603.0
70°	308.5	346.9	429.5	506.2	548.5
72.5°	260.1	298.5	379.1	447.7	480.0
75°	211.7	252.1	324.7	373.1	393.2
77.5°	165.4	205.7	268.2	300.5	322.7
80°	123.0	157.3	201.7	225.9	233.9
82.5°	84.7	112.9	141.2	147.2	151.2
85°	52.4	66.5	76.6	74.6	74.6
87.5°	24.2	26.2	22.2	16.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)