

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: P286928

Luminaire Tested: **22CZ-LD5-44-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286928
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED @ 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4193.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

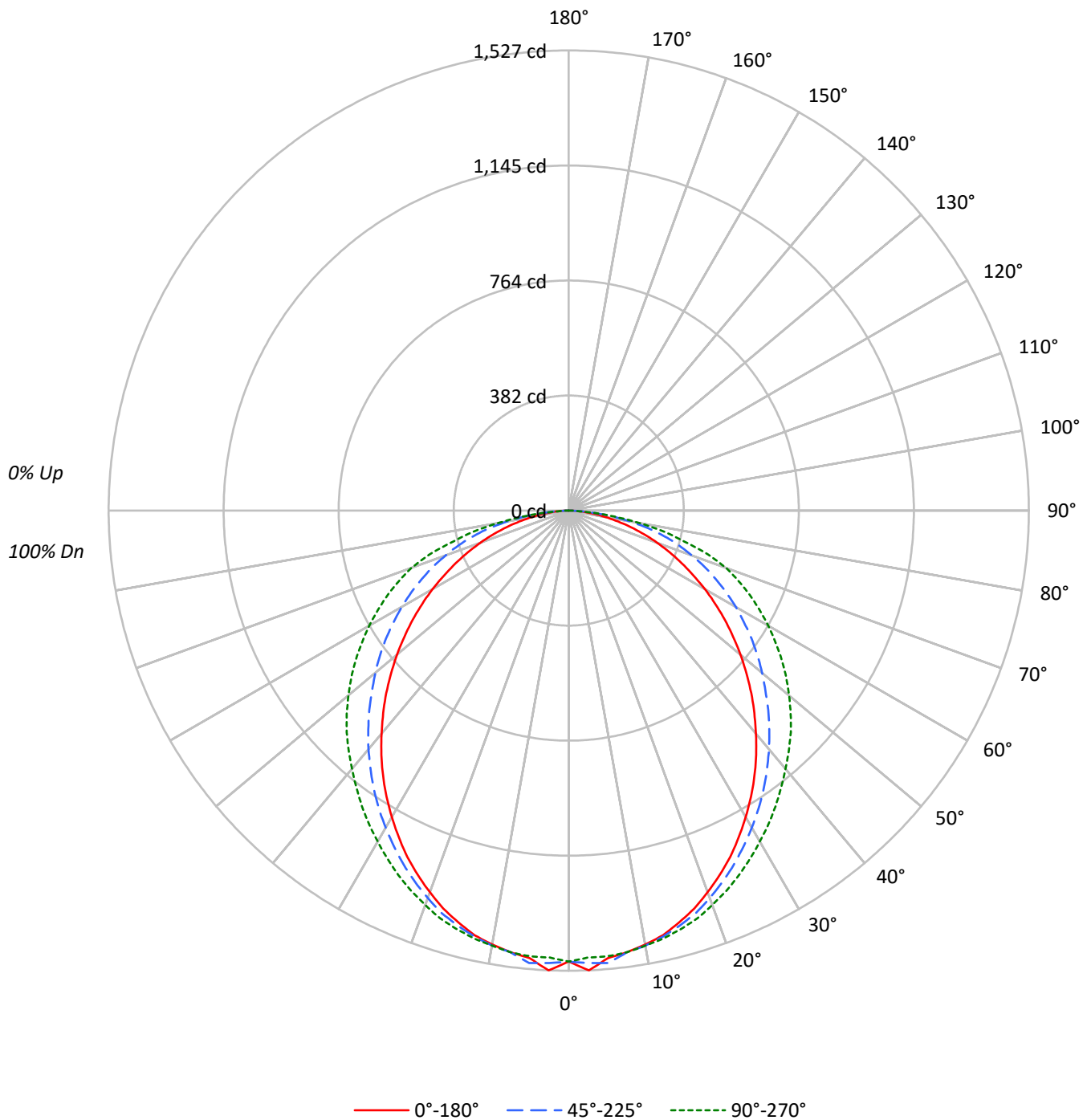
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4027	4027	4027
5°	4026	4070	4010
10°	3995	4006	4006
15°	3942	3971	4005
20°	3860	3918	3988
25°	3766	3850	3965
30°	3649	3776	3941
35°	3530	3704	3932
40°	3395	3632	3932
45°	3259	3562	3965
50°	3116	3508	3995
55°	2966	3473	4046
60°	2809	3446	4115
65°	2635	3428	4220
70°	2455	3417	4364
75°	2226	3413	4134
80°	1928	3160	3665
85°	1636	2393	2328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.4
10°-20°	402.1	9.6
20°-30°	598.1	14.3
30°-40°	707.4	16.9
40°-50°	727.1	17.3
50°-60°	664.4	15.8
60°-70°	531.5	12.7
70°-80°	333.6	8.0
80°-90°	86.9	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°	1142.2	27.2
0°-40°	1849.6	44.1
0°-60°	3241.1	77.3
0°-90°	4193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1490	1490	1507	1497	1484	142
15°	1415	1417	1425	1433	1438	399
25°	1268	1276	1297	1319	1336	583
35°	1075	1089	1128	1170	1197	672
45°	856	879	936	1005	1042	660
55°	632	663	740	822	862	565
65°	414	451	538	620	663	411
75°	214	255	328	377	398	227
85°	53	67	78	75	75	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.6	1496.6	1496.6	1496.6	1496.6
2.5°	1527.2	1521.1	1502.7	1490.5	1484.4
5°	1490.5	1490.5	1506.8	1496.6	1484.4
7.5°	1478.3	1478.3	1478.3	1508.9	1478.3
10°	1462.0	1464.0	1466.0	1478.3	1466.0
12.5°	1443.6	1443.6	1447.7	1451.8	1453.8
15°	1415.1	1417.1	1425.3	1433.4	1437.5
17.5°	1384.5	1390.6	1400.8	1411.0	1419.1
20°	1347.8	1355.9	1368.2	1384.5	1392.6
22.5°	1309.0	1317.2	1333.5	1351.9	1366.1
25°	1268.3	1276.4	1296.8	1319.2	1335.5
27.5°	1221.4	1231.6	1256.0	1286.6	1302.9
30°	1174.5	1186.7	1215.2	1249.9	1268.3
32.5°	1125.5	1139.8	1172.4	1211.2	1233.6
35°	1074.6	1088.8	1127.6	1170.4	1196.9
37.5°	1021.5	1037.8	1080.7	1129.6	1158.1
40°	966.5	984.8	1033.8	1086.8	1119.4
42.5°	911.4	931.8	984.8	1048.0	1080.7
45°	856.4	878.8	935.9	1005.2	1041.9
47.5°	799.3	825.8	884.9	962.4	999.1
50°	744.2	770.7	838.0	917.5	954.3
52.5°	687.1	717.7	789.1	870.7	909.4
55°	632.1	662.7	740.2	821.7	862.5
57.5°	577.0	607.6	689.2	772.8	813.6
60°	522.0	554.6	640.2	721.8	764.6
62.5°	466.9	501.6	589.3	672.9	713.6
65°	413.9	450.6	538.3	619.9	662.7
67.5°	362.9	401.7	487.3	566.8	609.7
70°	312.0	350.7	434.3	511.8	554.6
72.5°	263.0	301.8	383.3	452.7	485.3
75°	214.1	254.9	328.3	377.2	397.6
77.5°	167.2	208.0	271.2	303.8	326.2
80°	124.4	159.0	203.9	228.4	236.5
82.5°	85.6	114.2	142.7	148.8	152.9
85°	53.0	67.3	77.5	75.4	75.4
87.5°	24.5	26.5	22.4	16.3	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)