

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: P259370

Luminaire Tested: **22CZ-LD5-44-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259370
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3902.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

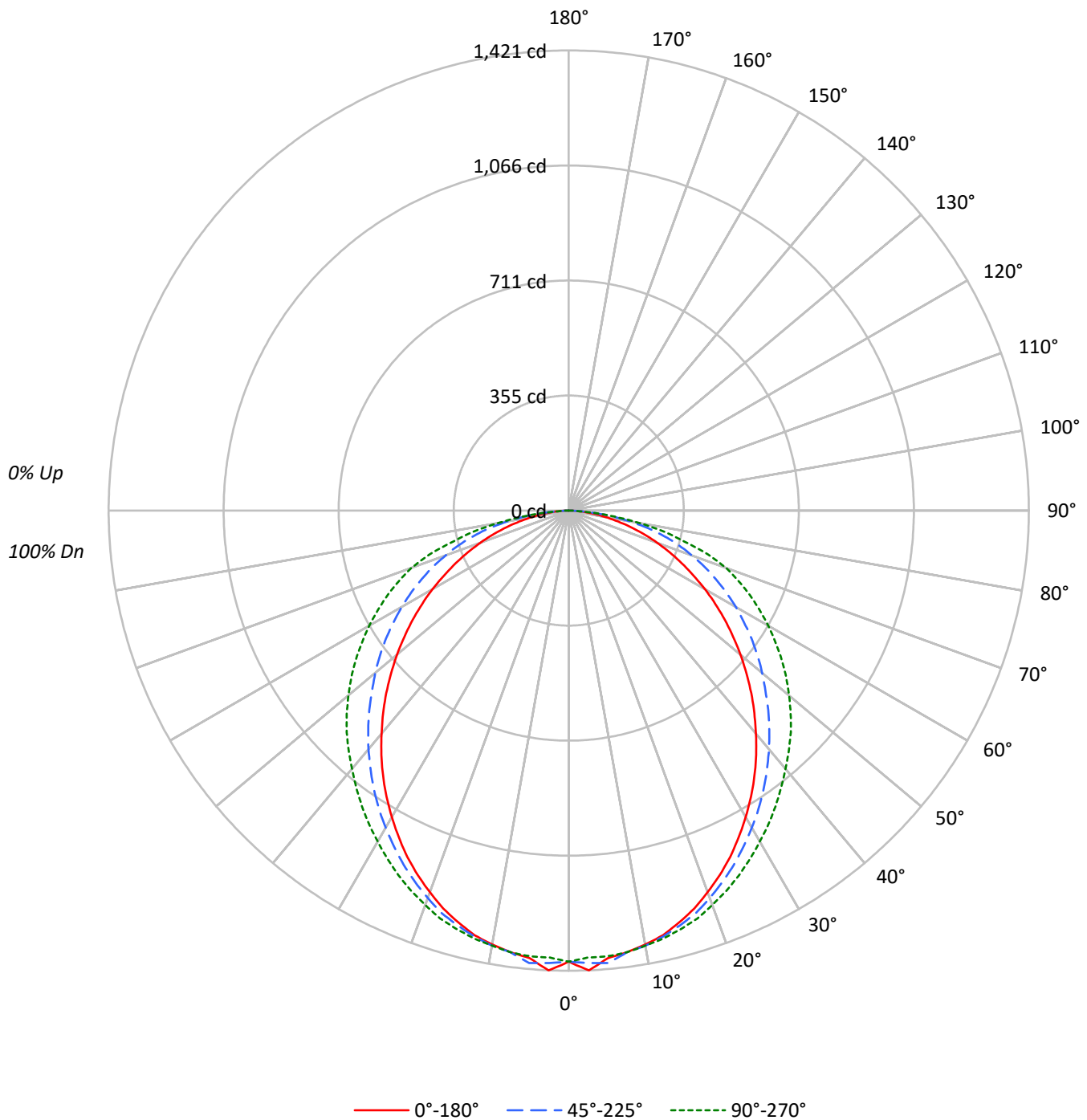
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3748	3748	3748
5°	3747	3788	3732
10°	3718	3728	3728
15°	3669	3695	3727
20°	3592	3646	3711
25°	3504	3583	3690
30°	3396	3514	3667
35°	3285	3447	3659
40°	3159	3379	3659
45°	3033	3314	3690
50°	2900	3265	3718
55°	2760	3232	3765
60°	2615	3207	3830
65°	2453	3189	3927
70°	2284	3180	4061
75°	2071	3176	3847
80°	1793	2940	3411
85°	1522	2226	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	3.4
10°-20°	374.2	9.6
20°-30°	556.6	14.3
30°-40°	658.3	16.9
40°-50°	676.6	17.3
50°-60°	618.3	15.8
60°-70°	494.6	12.7
70°-80°	310.4	8.0
80°-90°	80.8	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°	1062.9	27.2
0°-40°	1721.2	44.1
0°-60°	3016.2	77.3
0°-90°	3902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1387	1387	1402	1393	1381	132
15°	1317	1319	1326	1334	1338	371
25°	1180	1188	1207	1228	1243	543
35°	1000	1013	1049	1089	1114	625
45°	797	818	871	936	970	614
55°	588	617	689	765	803	526
65°	385	419	501	577	617	382
75°	199	237	306	351	370	212
85°	49	63	72	70	70	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.8	1392.8	1392.8	1392.8	1392.8
2.5°	1421.2	1415.5	1398.4	1387.1	1381.4
5°	1387.1	1387.1	1402.2	1392.8	1381.4
7.5°	1375.7	1375.7	1375.7	1404.1	1375.7
10°	1360.5	1362.4	1364.3	1375.7	1364.3
12.5°	1343.4	1343.4	1347.2	1351.0	1352.9
15°	1316.9	1318.8	1326.3	1333.9	1337.7
17.5°	1288.4	1294.1	1303.6	1313.1	1320.7
20°	1254.2	1261.8	1273.2	1288.4	1296.0
22.5°	1218.2	1225.8	1241.0	1258.0	1271.3
25°	1180.2	1187.8	1206.8	1227.7	1242.9
27.5°	1136.6	1146.1	1168.9	1197.3	1212.5
30°	1093.0	1104.3	1130.9	1163.2	1180.2
32.5°	1047.4	1060.7	1091.1	1127.1	1148.0
35°	1000.0	1013.3	1049.3	1089.2	1113.8
37.5°	950.6	965.8	1005.7	1051.2	1077.8
40°	899.4	916.5	962.0	1011.4	1041.7
42.5°	848.2	867.2	916.5	975.3	1005.7
45°	796.9	817.8	870.9	935.5	969.6
47.5°	743.8	768.5	823.5	895.6	929.8
50°	692.6	717.3	779.9	853.9	888.0
52.5°	639.5	667.9	734.3	810.2	846.3
55°	588.2	616.7	688.8	764.7	802.6
57.5°	537.0	565.5	641.4	719.1	757.1
60°	485.8	516.1	595.8	671.7	711.6
62.5°	434.5	466.8	548.4	626.2	664.1
65°	385.2	419.3	500.9	576.8	616.7
67.5°	337.8	373.8	453.5	527.5	567.3
70°	290.3	326.4	404.2	476.3	516.1
72.5°	244.8	280.8	356.7	421.2	451.6
75°	199.2	237.2	305.5	351.0	370.0
77.5°	155.6	193.5	252.4	282.7	303.6
80°	115.7	148.0	189.7	212.5	220.1
82.5°	79.7	106.3	132.8	138.5	142.3
85°	49.3	62.6	72.1	70.2	70.2
87.5°	22.8	24.7	20.9	15.2	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)