

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: P230553

Luminaire Tested: **22CZ-LD5-44-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230553
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-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3817.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

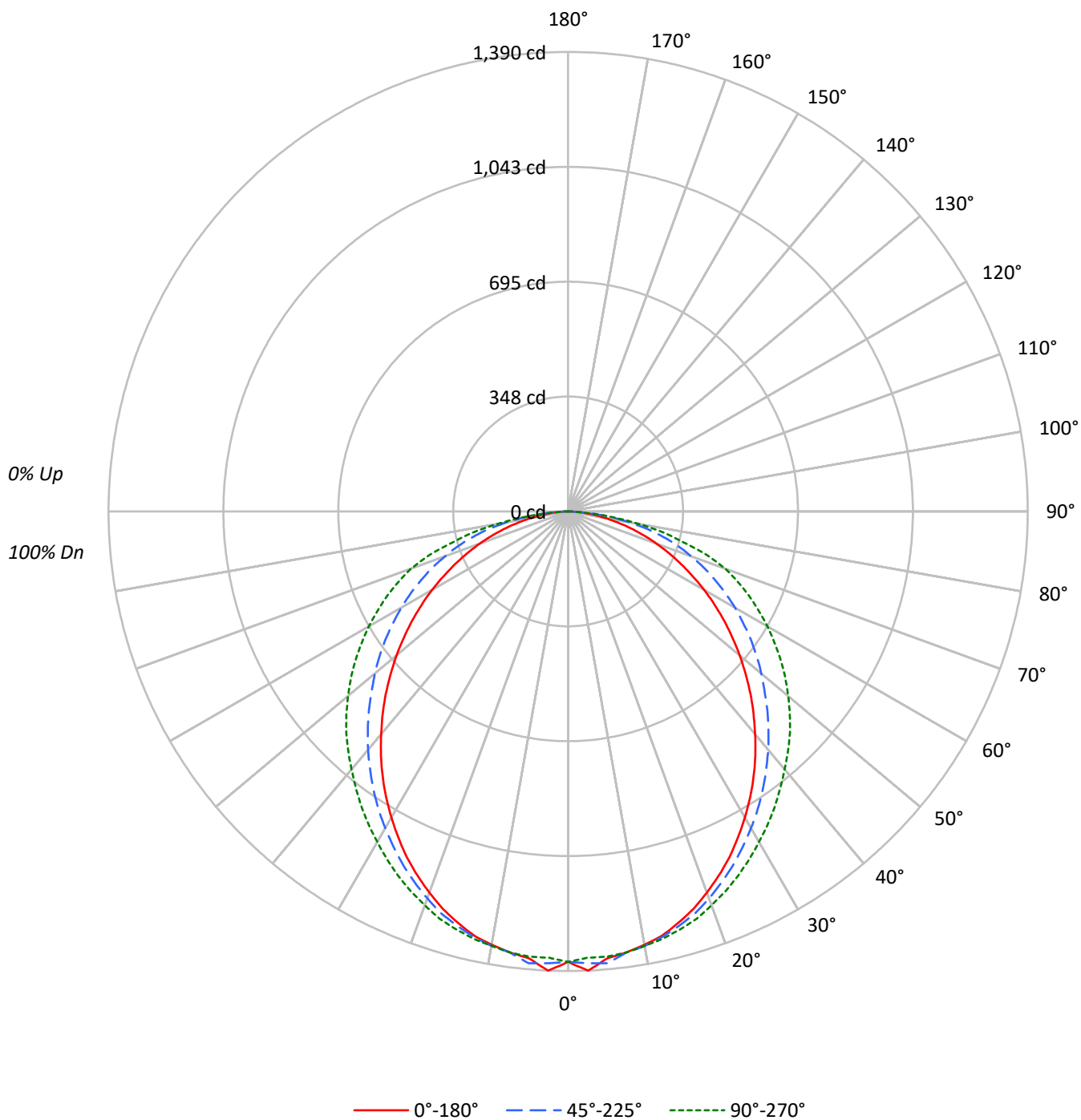
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3666	3666	3666
5°	3665	3705	3650
10°	3637	3647	3647
15°	3589	3615	3646
20°	3513	3567	3631
25°	3428	3505	3610
30°	3322	3438	3587
35°	3213	3372	3579
40°	3091	3306	3580
45°	2967	3242	3610
50°	2836	3194	3637
55°	2700	3161	3684
60°	2558	3137	3746
65°	2399	3120	3841
70°	2234	3111	3973
75°	2026	3107	3763
80°	1754	2876	3336
85°	1491	2177	2121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.4
10°-20°	366.0	9.6
20°-30°	544.5	14.3
30°-40°	644.0	16.9
40°-50°	661.9	17.3
50°-60°	604.8	15.8
60°-70°	483.8	12.7
70°-80°	303.6	8.0
80°-90°	79.1	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°	1039.7	27.2
0°-40°	1683.7	44.1
0°-60°	2950.4	77.3
0°-90°	3817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1357	1357	1372	1362	1351	129
15°	1288	1290	1298	1305	1309	363
25°	1154	1162	1180	1201	1216	531
35°	978	991	1026	1065	1090	611
45°	780	800	852	915	948	601
55°	575	603	674	748	785	515
65°	377	410	490	564	603	374
75°	195	232	299	343	362	207
85°	48	61	70	69	69	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.4	1362.4	1362.4	1362.4	1362.4
2.5°	1390.3	1384.7	1368.0	1356.8	1351.3
5°	1356.8	1356.8	1371.7	1362.4	1351.3
7.5°	1345.7	1345.7	1345.7	1373.6	1345.7
10°	1330.9	1332.7	1334.6	1345.7	1334.6
12.5°	1314.2	1314.2	1317.9	1321.6	1323.4
15°	1288.2	1290.0	1297.5	1304.9	1308.6
17.5°	1260.3	1265.9	1275.2	1284.5	1291.9
20°	1226.9	1234.3	1245.5	1260.3	1267.8
22.5°	1191.6	1199.1	1213.9	1230.6	1243.6
25°	1154.5	1162.0	1180.5	1200.9	1215.8
27.5°	1111.8	1121.1	1143.4	1171.2	1186.1
30°	1069.1	1080.3	1106.3	1137.8	1154.5
32.5°	1024.6	1037.6	1067.3	1102.6	1123.0
35°	978.2	991.2	1026.5	1065.4	1089.6
37.5°	929.9	944.8	983.8	1028.3	1054.3
40°	879.8	896.5	941.1	989.3	1019.0
42.5°	829.7	848.3	896.5	954.1	983.8
45°	779.6	800.0	852.0	915.1	948.5
47.5°	727.6	751.7	805.6	876.1	909.5
50°	677.5	701.6	762.9	835.3	868.7
52.5°	625.5	653.4	718.3	792.6	827.8
55°	575.4	603.2	673.8	748.0	785.2
57.5°	525.3	553.1	627.4	703.5	740.6
60°	475.2	504.9	582.8	657.1	696.1
62.5°	425.1	456.6	536.4	612.5	649.7
65°	376.8	410.2	490.0	564.3	603.2
67.5°	330.4	365.7	443.6	516.0	555.0
70°	284.0	319.3	395.4	465.9	504.9
72.5°	239.4	274.7	349.0	412.1	441.8
75°	194.9	232.0	298.8	343.4	361.9
77.5°	152.2	189.3	246.9	276.6	297.0
80°	113.2	144.8	185.6	207.9	215.3
82.5°	78.0	103.9	129.9	135.5	139.2
85°	48.3	61.3	70.5	68.7	68.7
87.5°	22.3	24.1	20.4	14.8	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)