

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: P259541

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4230.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

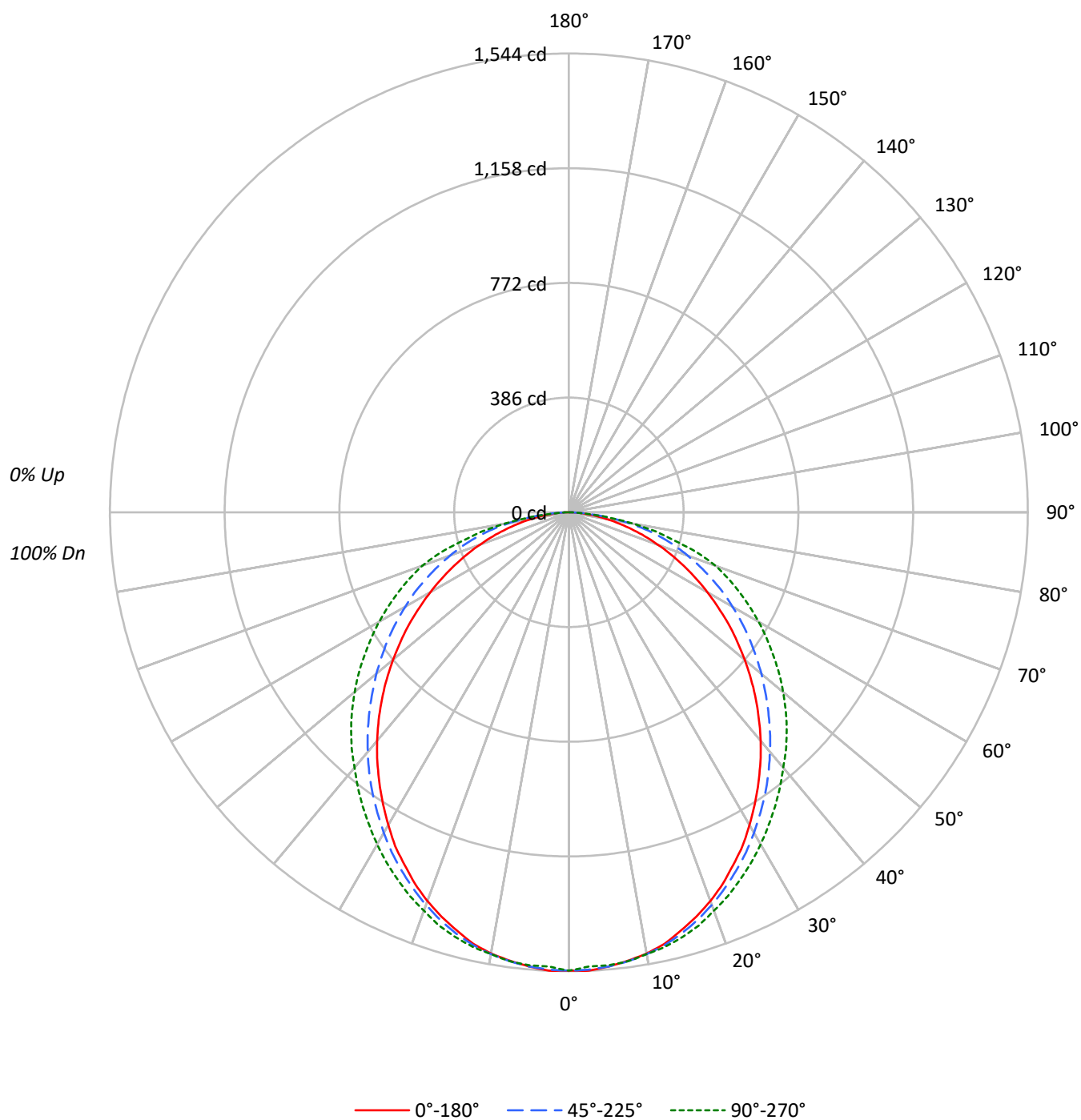
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4150	4150	4150
5°	4144	4144	4133
10°	4119	4125	4125
15°	4059	4087	4121
20°	3985	4026	4084
25°	3885	3951	4048
30°	3775	3870	4009
35°	3651	3784	3971
40°	3526	3697	3940
45°	3387	3611	3943
50°	3232	3538	3938
55°	3079	3479	3937
60°	2898	3422	3969
65°	2717	3377	4024
70°	2510	3341	4124
75°	2260	3317	3823
80°	1984	3085	3338
85°	1630	2322	2069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.4
10°-20°	413.7	9.8
20°-30°	614.4	14.5
30°-40°	723.2	17.1
40°-50°	737.3	17.4
50°-60°	665.0	15.7
60°-70°	523.8	12.4
70°-80°	323.1	7.6
80°-90°	83.9	2.0
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°	1173.7	27.7
0°-40°	1896.9	44.8
0°-60°	3299.2	78.0
0°-90°	4230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1534	1536	1534	1532	1530	146
15°	1457	1463	1467	1475	1479	411
25°	1308	1317	1331	1353	1363	603
35°	1111	1124	1152	1189	1209	695
45°	890	904	949	1006	1036	686
55°	656	679	742	809	839	586
65°	427	457	530	597	632	423
75°	217	254	319	356	368	232
85°	53	67	75	71	67	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.1	1542.1	1542.1	1542.1	1542.1
2.5°	1544.1	1544.1	1540.1	1536.0	1529.9
5°	1534.0	1536.0	1534.0	1531.9	1529.9
7.5°	1521.8	1523.8	1523.8	1523.8	1523.8
10°	1507.5	1509.6	1509.6	1509.6	1509.6
12.5°	1487.2	1489.3	1491.3	1493.3	1497.4
15°	1456.8	1462.8	1466.9	1475.0	1479.1
17.5°	1426.3	1432.4	1438.5	1448.6	1456.8
20°	1391.7	1395.8	1406.0	1418.1	1426.3
22.5°	1353.1	1359.2	1369.4	1385.6	1397.8
25°	1308.4	1316.6	1330.8	1353.1	1363.3
27.5°	1265.8	1271.9	1290.2	1314.5	1328.8
30°	1215.0	1223.1	1245.5	1275.9	1290.2
32.5°	1164.2	1174.3	1198.7	1233.3	1249.5
35°	1111.4	1123.5	1152.0	1188.6	1208.9
37.5°	1058.5	1070.7	1103.2	1143.9	1166.2
40°	1003.7	1015.9	1052.4	1097.1	1121.5
42.5°	946.8	961.0	1001.6	1052.4	1080.9
45°	889.9	904.1	948.8	1005.7	1036.2
47.5°	831.0	847.2	896.0	959.0	989.5
50°	772.1	790.3	845.2	910.2	940.7
52.5°	713.1	733.5	792.4	859.4	891.9
55°	656.2	678.6	741.6	808.6	839.1
57.5°	595.3	621.7	688.8	753.8	788.3
60°	538.4	566.9	635.9	700.9	737.5
62.5°	481.5	512.0	585.1	650.2	684.7
65°	426.7	457.1	530.3	597.3	631.9
67.5°	371.8	406.3	477.5	544.5	579.0
70°	319.0	355.6	424.6	489.6	524.2
72.5°	268.2	304.8	373.8	434.8	455.1
75°	217.4	254.0	319.0	355.6	367.7
77.5°	170.7	205.2	262.1	284.4	300.7
80°	128.0	158.5	199.1	213.3	215.4
82.5°	87.4	113.8	138.2	140.2	138.2
85°	52.8	67.0	75.2	71.1	67.0
87.5°	24.4	26.4	24.4	16.3	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)