

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: P260414

Luminaire Tested: **22CZ-LD5-20-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1239.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

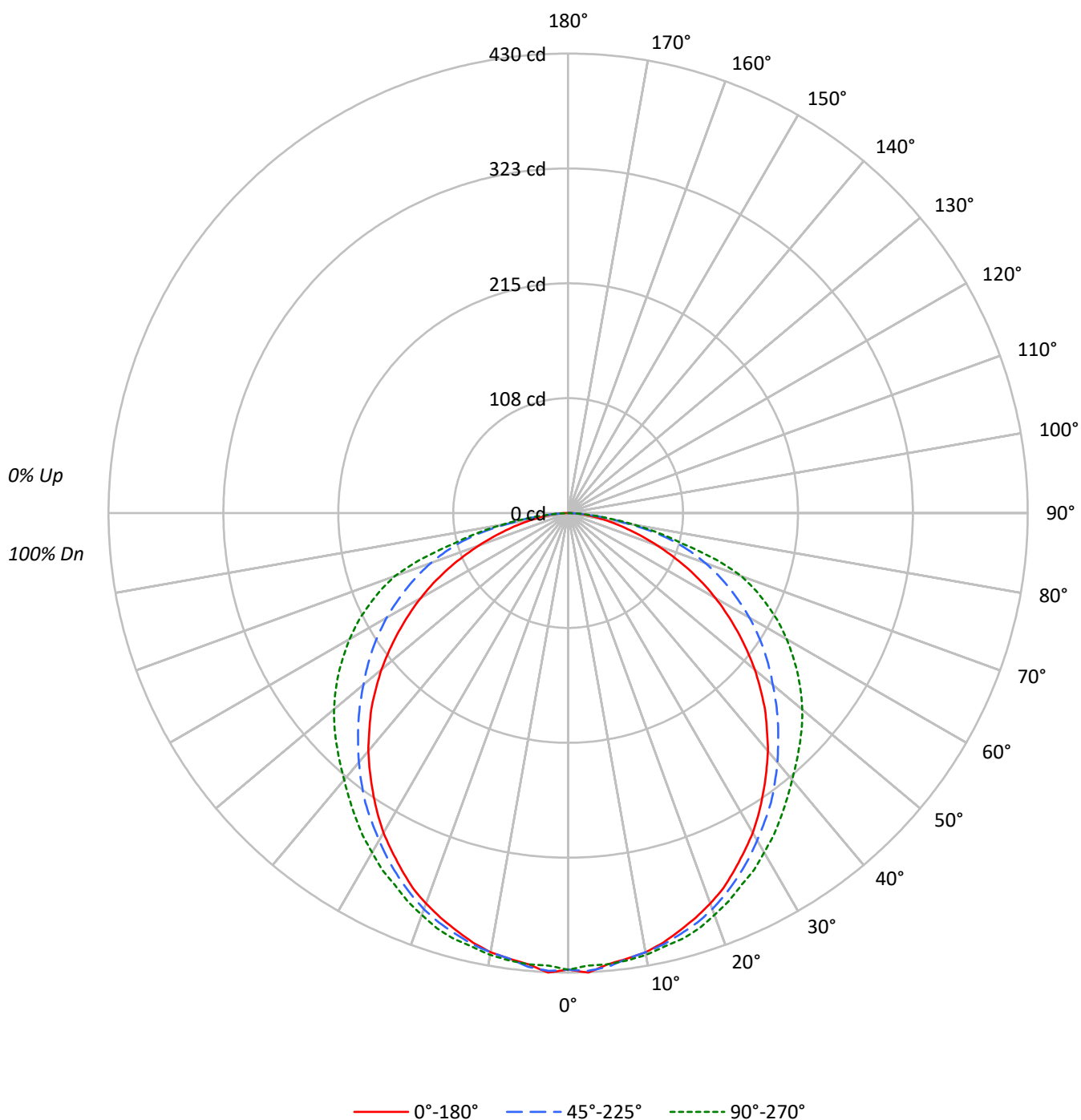
Input Watts (W): 15.888213
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	76	84	79	74		81	77	73		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1150	1150	1150
5°	1145	1152	1145
10°	1141	1141	1147
15°	1126	1136	1149
20°	1113	1130	1146
25°	1094	1116	1140
30°	1074	1099	1139
35°	1046	1087	1140
40°	1022	1070	1145
45°	991	1057	1166
50°	954	1046	1197
55°	908	1050	1230
60°	857	1055	1270
65°	790	1061	1316
70°	700	1073	1356
75°	595	1070	1155
80°	494	860	962
85°	429	580	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	3.3
10°-20°	115.1	9.3
20°-30°	173.2	14.0
30°-40°	207.5	16.8
40°-50°	216.4	17.5
50°-60°	201.5	16.3
60°-70°	163.6	13.2
70°-80°	98.6	8.0
80°-90°	22.6	1.8
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°	328.7	26.5
0°-40°	536.2	43.3
0°-60°	954.2	77.0
0°-90°	1239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	424	424	426	427	424	40
15°	404	406	408	410	412	114
25°	368	371	376	381	384	170
35°	318	323	331	341	347	199
45°	260	265	278	296	306	201
55°	194	202	224	248	262	173
65°	124	137	167	193	207	123
75°	57	76	103	109	111	62
85°	14	17	19	18	18	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	427.2	427.2	427.2	427.2	427.2
2.5°	430.4	429.6	428.8	426.3	423.9
5°	423.9	423.9	426.3	427.2	423.9
7.5°	420.6	420.6	420.6	423.9	422.3
10°	417.4	417.4	417.4	419.8	419.8
12.5°	411.6	412.5	413.3	414.1	415.7
15°	404.3	405.9	407.6	410.0	412.5
17.5°	396.9	398.6	401.8	404.3	407.6
20°	388.8	390.4	394.5	396.9	400.2
22.5°	379.8	380.6	385.5	388.8	392.9
25°	368.4	370.8	375.7	380.6	383.9
27.5°	356.9	359.4	365.1	371.6	376.5
30°	345.5	347.9	353.7	361.8	366.7
32.5°	332.4	335.7	342.2	352.0	357.7
35°	318.5	322.6	330.8	340.6	347.1
37.5°	304.6	308.7	317.7	330.0	336.5
40°	290.8	294.8	304.6	317.7	325.9
42.5°	275.2	280.1	290.8	306.3	316.1
45°	260.5	265.4	277.7	295.7	306.3
47.5°	244.2	249.9	263.8	284.2	296.5
50°	227.9	234.4	249.9	272.8	285.9
52.5°	210.7	218.1	236.9	260.5	274.4
55°	193.6	201.7	223.8	248.3	262.2
57.5°	176.4	185.4	209.9	235.2	249.1
60°	159.3	169.1	196.0	222.2	236.0
62.5°	142.1	152.7	181.3	207.5	222.2
65°	124.1	137.2	166.6	192.8	206.6
67.5°	106.2	121.7	151.9	177.2	190.3
70°	89.0	106.2	136.4	160.1	172.3
72.5°	72.7	90.7	120.1	140.5	145.4
75°	57.2	76.0	102.9	109.4	111.1
77.5°	44.1	61.3	81.7	83.3	87.4
80°	31.9	46.6	55.5	60.4	62.1
82.5°	22.1	31.9	36.8	37.6	38.4
85°	13.9	17.2	18.8	18.0	18.0
87.5°	7.4	6.5	5.7	4.1	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)