

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: P259233

Luminaire Tested: **22CZ-LD5-44-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259233
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-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4175.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

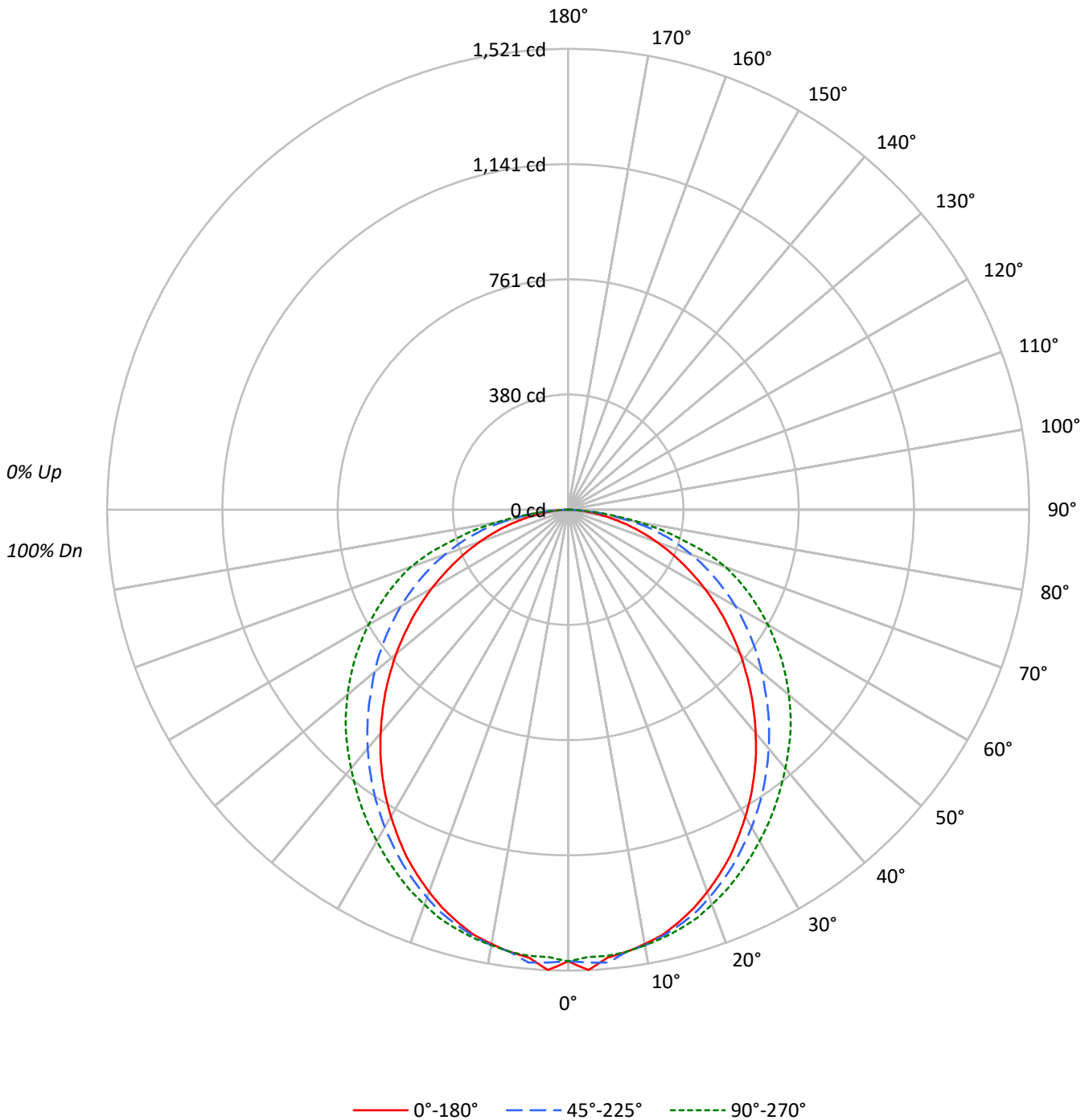
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4010	4010	4010
5°	4009	4053	3992
10°	3978	3989	3989
15°	3925	3953	3987
20°	3843	3901	3971
25°	3749	3834	3948
30°	3634	3760	3924
35°	3515	3688	3915
40°	3380	3616	3915
45°	3245	3546	3948
50°	3102	3493	3978
55°	2953	3458	4029
60°	2797	3431	4097
65°	2624	3413	4201
70°	2444	3402	4345
75°	2217	3399	4116
80°	1918	3146	3649
85°	1630	2381	2319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	3.4
10°-20°	400.3	9.6
20°-30°	595.6	14.3
30°-40°	704.4	16.9
40°-50°	724.0	17.3
50°-60°	661.5	15.8
60°-70°	529.2	12.7
70°-80°	332.1	8.0
80°-90°	86.5	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°	1137.3	27.2
0°-40°	1841.6	44.1
0°-60°	3227.1	77.3
0°-90°	4175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1484	1484	1500	1490	1478	141
15°	1409	1411	1419	1427	1431	397
25°	1263	1271	1291	1314	1330	581
35°	1070	1084	1123	1165	1192	669
45°	853	875	932	1001	1038	657
55°	629	660	737	818	859	563
65°	412	449	536	617	660	409
75°	213	254	327	376	396	226
85°	53	67	77	75	75	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.2	1490.2	1490.2	1490.2	1490.2
2.5°	1520.7	1514.6	1496.3	1484.1	1478.0
5°	1484.1	1484.1	1500.3	1490.2	1478.0
7.5°	1471.9	1471.9	1471.9	1502.4	1471.9
10°	1455.7	1457.7	1459.7	1471.9	1459.7
12.5°	1437.4	1437.4	1441.5	1445.5	1447.6
15°	1409.0	1411.0	1419.1	1427.3	1431.3
17.5°	1378.5	1384.6	1394.8	1404.9	1413.0
20°	1342.0	1350.1	1362.3	1378.5	1386.7
22.5°	1303.4	1311.5	1327.8	1346.1	1360.3
25°	1262.8	1270.9	1291.2	1313.6	1329.8
27.5°	1216.1	1226.3	1250.6	1281.1	1297.3
30°	1169.4	1181.6	1210.0	1244.5	1262.8
32.5°	1120.7	1134.9	1167.4	1206.0	1228.3
35°	1069.9	1084.1	1122.7	1165.4	1191.8
37.5°	1017.2	1033.4	1076.0	1124.8	1153.2
40°	962.3	980.6	1029.3	1082.1	1114.6
42.5°	907.5	927.8	980.6	1043.5	1076.0
45°	852.7	875.0	931.9	1000.9	1037.5
47.5°	795.9	822.2	881.1	958.3	994.8
50°	741.0	767.4	834.4	913.6	950.2
52.5°	684.2	714.6	785.7	866.9	905.5
55°	629.4	659.8	737.0	818.2	858.8
57.5°	574.6	605.0	686.2	769.5	810.1
60°	519.7	552.2	637.5	718.7	761.3
62.5°	464.9	499.4	586.7	670.0	710.6
65°	412.1	448.7	536.0	617.2	659.8
67.5°	361.4	400.0	485.2	564.4	607.0
70°	310.6	349.2	432.4	509.6	552.2
72.5°	261.9	300.5	381.7	450.7	483.2
75°	213.2	253.8	326.9	375.6	395.9
77.5°	166.5	207.1	270.0	302.5	324.8
80°	123.8	158.4	203.0	227.4	235.5
82.5°	85.3	113.7	142.1	148.2	152.3
85°	52.8	67.0	77.1	75.1	75.1
87.5°	24.4	26.4	22.3	16.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)