

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: P260554

Luminaire Tested: **24CZ-LD5-30-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3224.0 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

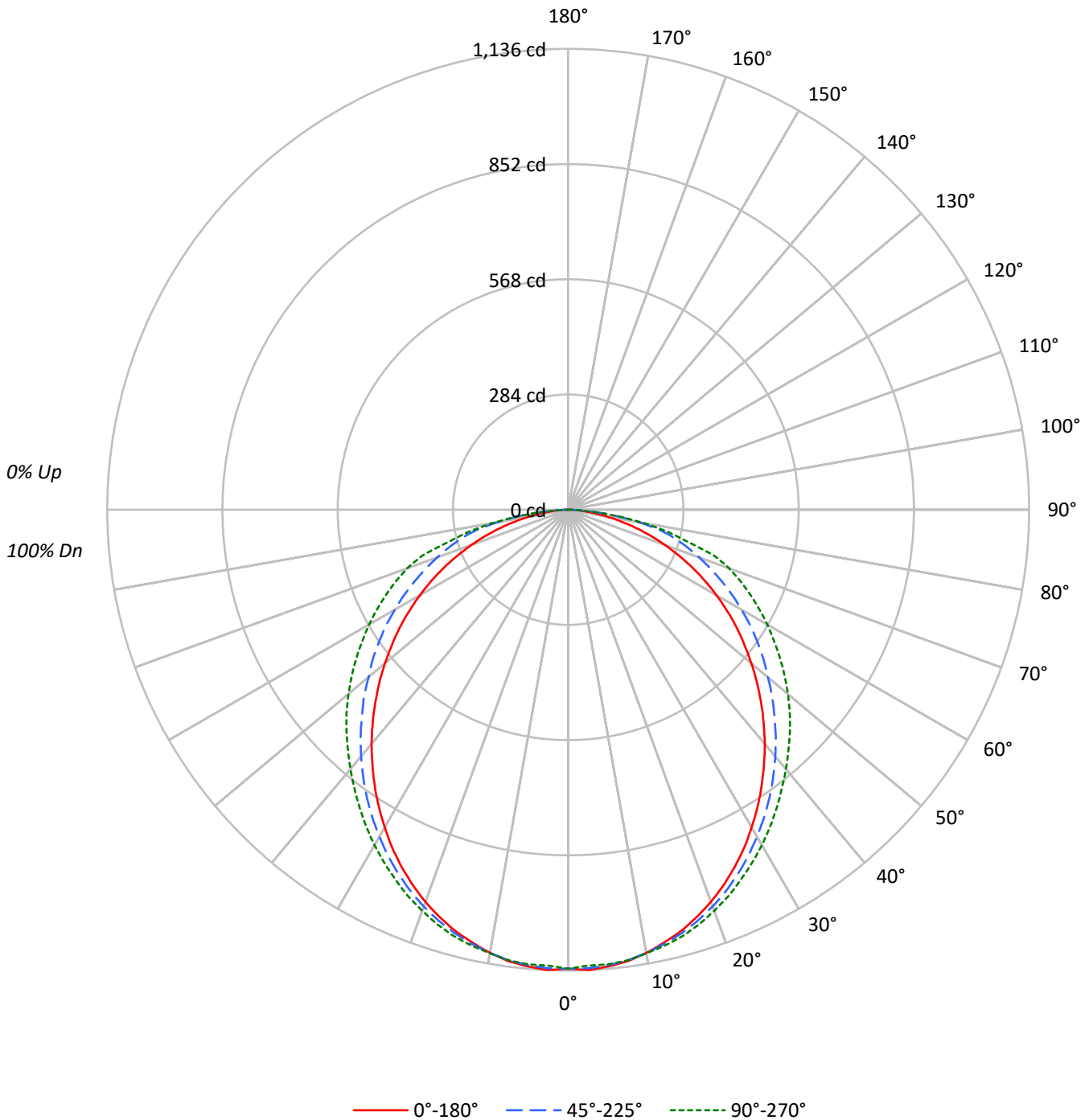
Input Watts (W): 20.074329
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1522	1522	1522
5°	1527	1522	1519
10°	1516	1516	1517
15°	1498	1505	1516
20°	1473	1490	1506
25°	1442	1470	1495
30°	1405	1446	1483
35°	1365	1421	1472
40°	1324	1394	1466
45°	1279	1367	1470
50°	1234	1345	1479
55°	1189	1336	1494
60°	1135	1328	1524
65°	1075	1329	1574
70°	995	1351	1659
75°	889	1411	1578
80°	744	1351	1446
85°	562	1039	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.3
10°-20°	304.3	9.4
20°-30°	454.9	14.1
30°-40°	539.7	16.7
40°-50°	555.5	17.2
50°-60°	509.6	15.8
60°-70°	412.0	12.8
70°-80°	267.4	8.3
80°-90°	73.7	2.3
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°	866.1	26.9
0°-40°	1405.8	43.6
0°-60°	2470.9	76.6
0°-90°	3224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1130	1123	1127	1126	1125	107
15°	1075	1071	1081	1085	1088	303
25°	971	972	990	999	1007	447
35°	831	838	865	884	896	520
45°	672	683	719	753	773	519
55°	507	522	570	616	637	453
65°	338	358	417	472	494	334
75°	171	203	272	304	304	182
85°	36	62	67	65	64	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1135.9	1127.0	1131.5	1130.4	1124.8
5°	1130.4	1122.6	1127.0	1125.9	1124.8
7.5°	1122.6	1114.9	1120.4	1119.3	1120.4
10°	1109.4	1102.8	1109.4	1110.5	1110.5
12.5°	1092.8	1087.3	1096.1	1098.3	1100.5
15°	1075.2	1070.7	1080.7	1085.1	1088.4
17.5°	1053.1	1049.8	1061.9	1067.4	1071.8
20°	1028.8	1027.7	1040.9	1046.5	1052.0
22.5°	1001.2	1001.2	1016.7	1023.3	1031.0
25°	971.4	972.5	990.2	999.0	1006.7
27.5°	939.4	940.5	961.5	972.5	981.3
30°	904.1	908.5	930.6	944.9	954.8
32.5°	868.7	874.3	898.5	915.1	926.1
35°	831.2	837.8	865.4	884.2	896.3
37.5°	792.6	800.3	830.1	851.1	865.4
40°	753.9	762.8	793.7	818.0	834.5
42.5°	713.1	723.0	757.2	785.9	803.6
45°	672.3	683.3	718.6	752.8	772.7
47.5°	631.4	644.7	682.2	719.7	740.7
50°	589.5	602.7	642.4	685.5	706.5
52.5°	547.5	563.0	607.1	651.3	672.3
55°	506.7	522.1	569.6	616.0	636.9
57.5°	464.7	480.2	532.1	580.6	601.6
60°	421.7	439.3	493.4	543.1	566.3
62.5°	379.7	398.5	455.9	508.9	531.0
65°	337.8	357.7	417.3	472.5	494.5
67.5°	294.7	317.9	379.7	436.0	459.2
70°	252.8	278.2	343.3	399.6	421.7
72.5°	211.9	239.5	306.9	364.3	377.5
75°	171.1	203.1	271.5	303.6	303.6
77.5°	132.5	167.8	231.8	244.0	250.6
80°	96.0	134.7	174.4	188.8	186.6
82.5°	64.0	102.7	124.7	124.7	121.4
85°	36.4	61.8	67.3	65.1	64.0
87.5°	15.5	23.2	21.0	16.6	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)