

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: P261217

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3185.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

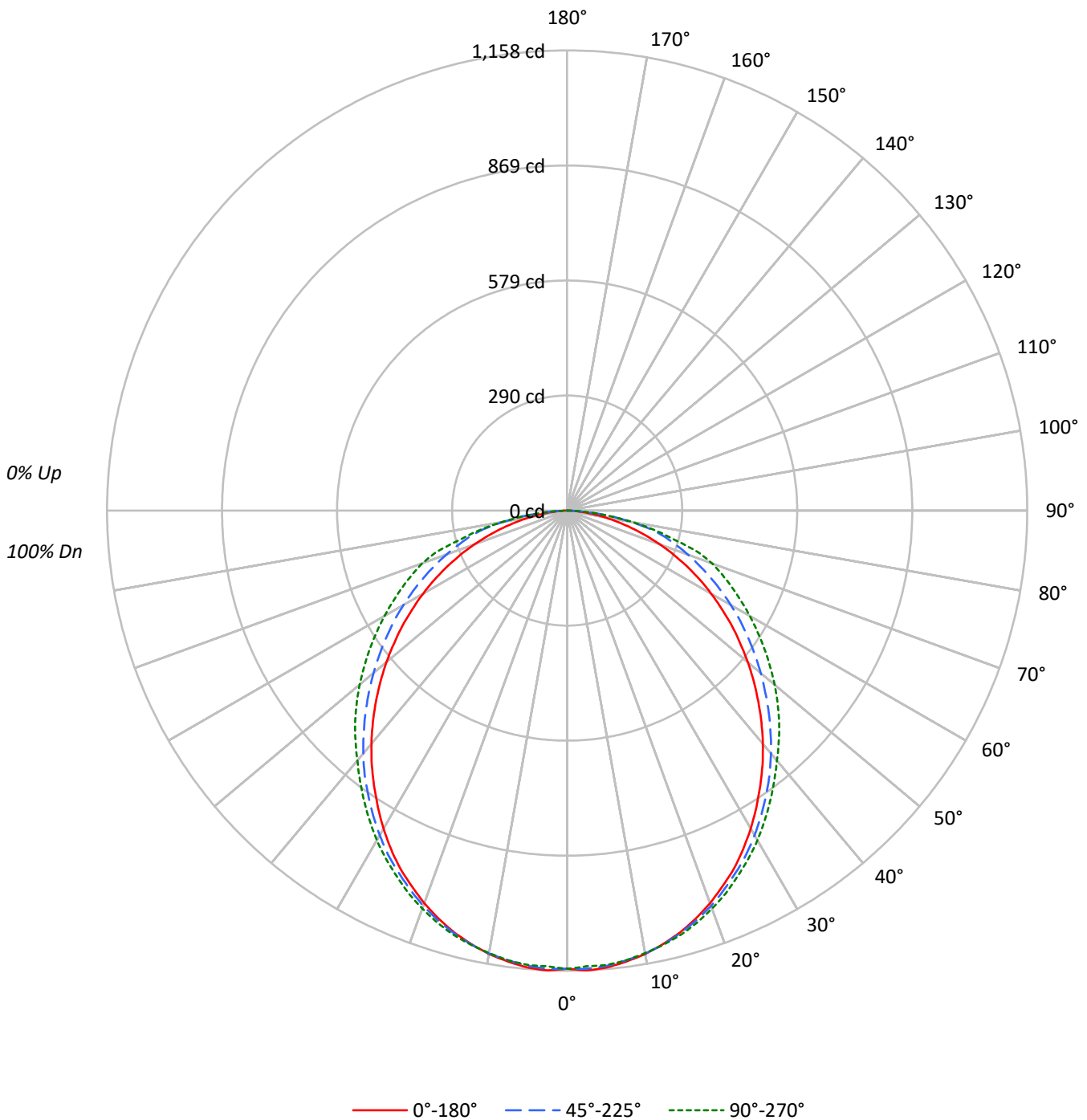
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1551	1551	1551
5°	1559	1553	1550
10°	1548	1546	1545
15°	1531	1534	1540
20°	1505	1516	1526
25°	1476	1492	1507
30°	1436	1465	1488
35°	1391	1434	1464
40°	1346	1402	1443
45°	1295	1365	1436
50°	1242	1331	1426
55°	1188	1303	1422
60°	1126	1280	1429
65°	1060	1265	1457
70°	976	1271	1526
75°	865	1317	1421
80°	723	1248	1281
85°	540	997	915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.4
10°-20°	310.0	9.7
20°-30°	462.0	14.5
30°-40°	543.9	17.1
40°-50°	552.7	17.4
50°-60°	496.9	15.6
60°-70°	392.6	12.3
70°-80°	249.1	7.8
80°-90°	68.7	2.2
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°	881.1	27.7
0°-40°	1425.0	44.7
0°-60°	2474.6	77.7
0°-90°	3185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1154	1145	1150	1148	1148	109
15°	1099	1094	1101	1104	1105	310
25°	994	993	1005	1011	1015	457
35°	847	852	873	883	891	530
45°	680	690	718	739	755	525
55°	507	519	555	591	606	452
65°	333	350	397	441	458	330
75°	166	195	253	276	273	177
85°	35	60	65	59	59	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.0	1153.0	1153.0	1153.0	1153.0
2.5°	1158.3	1149.8	1154.1	1152.0	1147.7
5°	1154.1	1144.6	1149.8	1147.7	1147.7
7.5°	1144.6	1137.1	1141.4	1140.3	1141.4
10°	1132.9	1125.5	1131.8	1131.8	1130.8
12.5°	1117.0	1110.6	1118.1	1118.1	1119.1
15°	1099.0	1093.7	1101.1	1104.3	1105.3
17.5°	1076.7	1071.4	1081.0	1084.1	1087.3
20°	1051.3	1049.2	1058.7	1061.9	1066.1
22.5°	1022.7	1022.7	1032.2	1036.5	1042.8
25°	994.1	993.0	1004.7	1011.0	1015.3
27.5°	960.2	961.2	976.0	982.4	987.7
30°	924.1	926.2	943.2	950.6	958.0
32.5°	886.0	890.2	909.3	917.8	925.2
35°	846.8	852.1	873.2	882.8	891.3
37.5°	807.5	815.0	837.2	846.8	856.3
40°	766.2	772.6	798.0	809.7	821.3
42.5°	723.8	732.3	757.7	774.7	788.5
45°	680.4	689.9	717.5	738.7	754.6
47.5°	636.9	649.6	676.1	704.7	718.5
50°	593.5	606.2	635.9	667.7	681.4
52.5°	549.0	561.7	595.6	628.4	643.3
55°	506.6	519.3	555.3	591.4	606.2
57.5°	462.1	475.8	516.1	553.2	568.0
60°	418.6	432.4	475.8	515.0	530.9
62.5°	376.2	391.1	436.6	478.0	493.9
65°	332.8	349.7	397.4	440.9	457.8
67.5°	290.4	309.5	359.3	404.8	422.8
70°	248.0	270.2	323.2	369.9	387.9
72.5°	206.7	231.0	287.2	333.8	343.4
75°	166.4	195.0	253.3	275.5	273.4
77.5°	128.2	160.0	215.1	219.4	225.7
80°	93.3	128.2	161.1	169.6	165.3
82.5°	61.5	96.4	115.5	111.3	110.2
85°	35.0	60.4	64.6	59.3	59.3
87.5°	14.8	24.4	21.2	15.9	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)