

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: P261214

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261214
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3021.0 lumens
Efficiency: N/A
Efficacy: 138.2 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

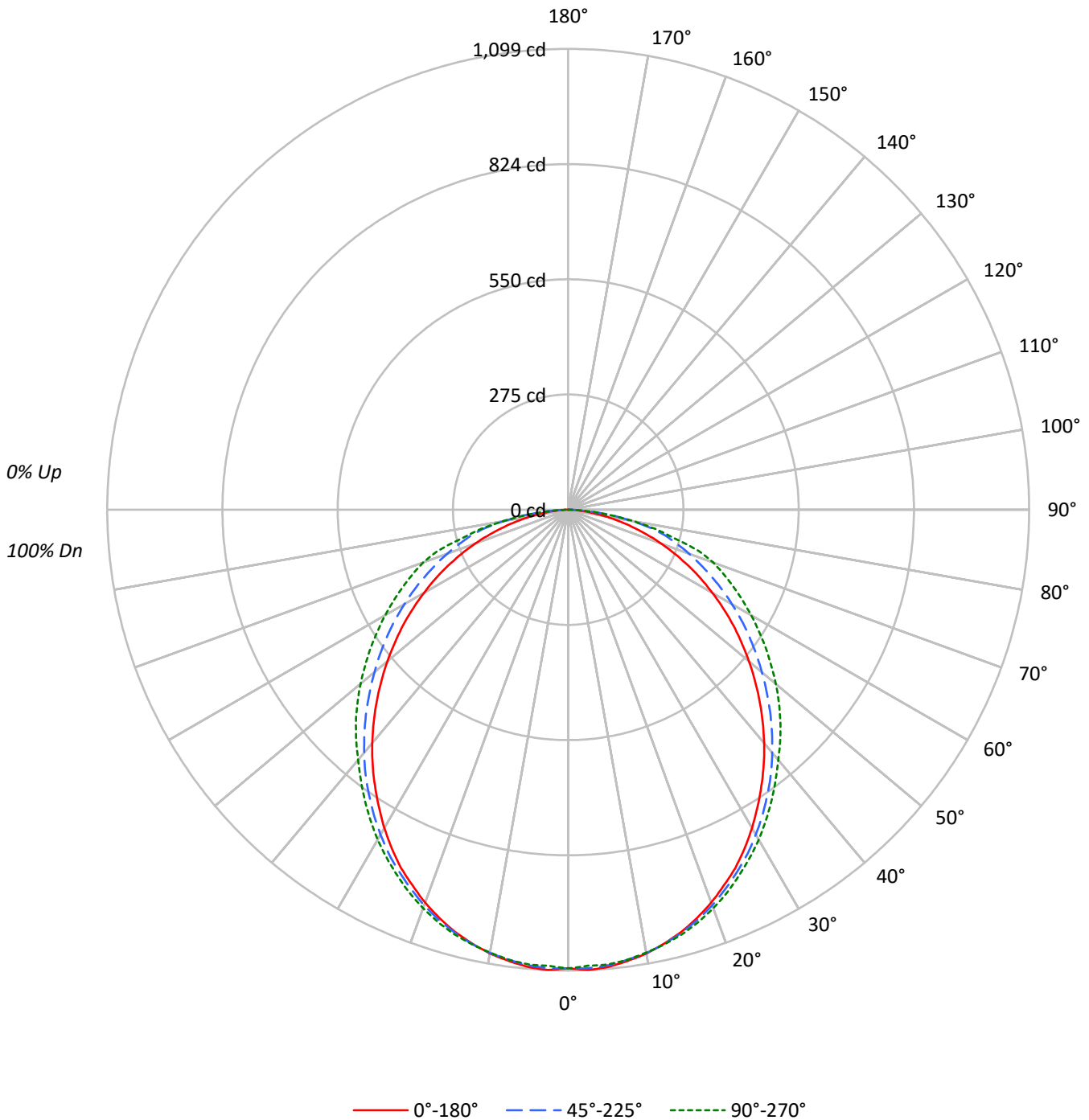
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1472	1472	1472
5°	1479	1473	1470
10°	1468	1467	1465
15°	1452	1455	1460
20°	1428	1438	1448
25°	1400	1415	1430
30°	1362	1390	1412
35°	1319	1361	1389
40°	1277	1329	1368
45°	1228	1295	1362
50°	1178	1262	1353
55°	1127	1236	1349
60°	1069	1214	1355
65°	1005	1200	1382
70°	925	1206	1447
75°	820	1249	1348
80°	686	1184	1215
85°	513	946	869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.4
10°-20°	294.1	9.7
20°-30°	438.2	14.5
30°-40°	515.9	17.1
40°-50°	524.3	17.4
50°-60°	471.3	15.6
60°-70°	372.4	12.3
70°-80°	236.2	7.8
80°-90°	65.2	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°	835.7	27.7
0°-40°	1351.6	44.7
0°-60°	2347.2	77.7
0°-90°	3021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1095	1086	1091	1089	1089	104
15°	1042	1037	1044	1047	1048	294
25°	943	942	953	959	963	434
35°	803	808	828	837	845	502
45°	645	654	680	701	716	498
55°	480	492	527	561	575	429
65°	316	332	377	418	434	313
75°	158	185	240	261	259	168
85°	33	57	61	56	56	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.7	1093.7	1093.7	1093.7	1093.7
2.5°	1098.7	1090.6	1094.7	1092.7	1088.6
5°	1094.7	1085.6	1090.6	1088.6	1088.6
7.5°	1085.6	1078.6	1082.6	1081.6	1082.6
10°	1074.6	1067.5	1073.6	1073.6	1072.5
12.5°	1059.5	1053.4	1060.5	1060.5	1061.5
15°	1042.4	1037.4	1044.4	1047.4	1048.4
17.5°	1021.3	1016.3	1025.3	1028.3	1031.3
20°	997.2	995.1	1004.2	1007.2	1011.2
22.5°	970.0	970.0	979.1	983.1	989.1
25°	942.9	941.9	952.9	959.0	963.0
27.5°	910.7	911.7	925.8	931.8	936.8
30°	876.5	878.5	894.6	901.7	908.7
32.5°	840.3	844.4	862.5	870.5	877.5
35°	803.2	808.2	828.3	837.3	845.4
37.5°	766.0	773.0	794.1	803.2	812.2
40°	726.8	732.8	756.9	768.0	779.0
42.5°	686.6	694.6	718.7	734.8	747.9
45°	645.3	654.4	680.5	700.6	715.7
47.5°	604.1	616.2	641.3	668.5	681.5
50°	562.9	575.0	603.1	633.3	646.3
52.5°	520.7	532.8	564.9	596.1	610.2
55°	480.5	492.5	526.7	560.9	575.0
57.5°	438.3	451.3	489.5	524.7	538.8
60°	397.1	410.1	451.3	488.5	503.6
62.5°	356.8	370.9	414.1	453.3	468.4
65°	315.6	331.7	376.9	418.2	434.2
67.5°	275.4	293.5	340.8	384.0	401.1
70°	235.2	256.3	306.6	350.8	367.9
72.5°	196.0	219.1	272.4	316.6	325.7
75°	157.8	185.0	240.2	261.4	259.3
77.5°	121.6	151.8	204.1	208.1	214.1
80°	88.5	121.6	152.8	160.8	156.8
82.5°	58.3	91.5	109.6	105.5	104.5
85°	33.2	57.3	61.3	56.3	56.3
87.5°	14.1	23.1	20.1	15.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)