

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: P#

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

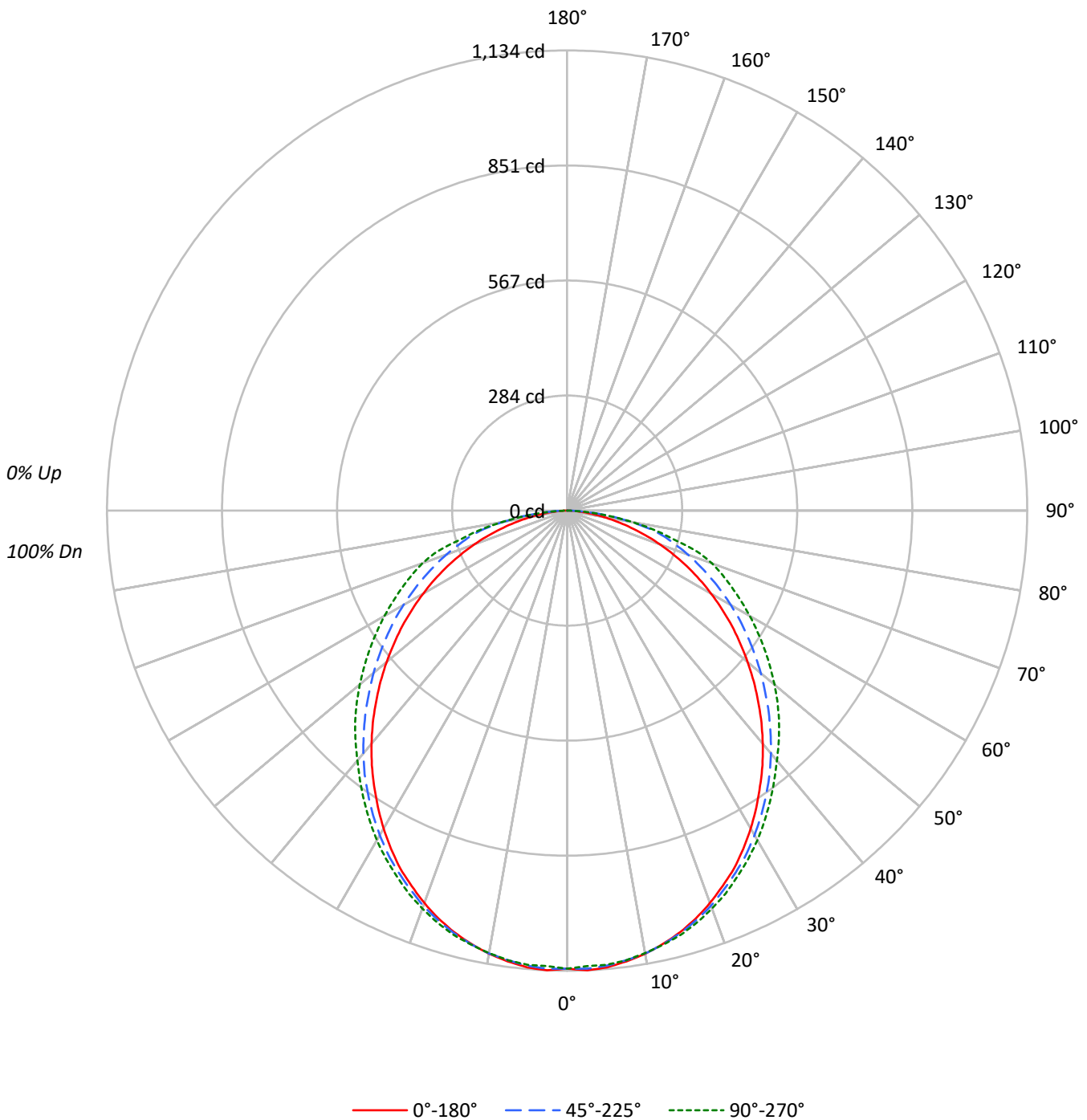
Lumens per Lamp: N/A
Luminaire Lumens: 3118.2 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (A_{in}): 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°	1519	1519	1519
5°	1523	1513	1511
10°	1509	1500	1499
15°	1489	1481	1487
20°	1460	1456	1468
25°	1428	1425	1442
30°	1386	1392	1416
35°	1338	1354	1385
40°	1290	1314	1355
45°	1237	1269	1339
50°	1181	1226	1318
55°	1123	1186	1299
60°	1057	1148	1287
65°	984	1112	1289
70°	894	1086	1313
75°	775	1076	1173
80°	620	939	977
85°	411	608	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.4
10°-20°	303.5	9.7
20°-30°	452.3	14.5
30°-40°	532.5	17.1
40°-50°	541.1	17.4
50°-60°	486.5	15.6
60°-70°	384.3	12.3
70°-80°	243.8	7.8
80°-90°	67.3	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°	862.6	27.7
0°-40°	1395.1	44.7
0°-60°	2422.7	77.7
0°-90°	3118.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3118.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1130	1120	1126	1124	1124	107
15°	1076	1071	1078	1081	1082	303
25°	973	972	984	990	994	447
35°	829	834	855	864	873	519
45°	666	675	702	723	739	514
55°	496	508	544	579	594	443
65°	326	342	389	432	448	323
75°	163	191	248	270	268	173
85°	34	59	63	58	58	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.8	1128.8	1128.8	1128.8	1128.8
2.5°	1134.0	1125.7	1129.9	1127.8	1123.6
5°	1129.9	1120.5	1125.7	1123.6	1123.6
7.5°	1120.5	1113.3	1117.4	1116.4	1117.4
10°	1109.1	1101.8	1108.1	1108.1	1107.0
12.5°	1093.5	1087.3	1094.6	1094.6	1095.6
15°	1075.9	1070.7	1078.0	1081.1	1082.1
17.5°	1054.1	1048.9	1058.3	1061.4	1064.5
20°	1029.2	1027.1	1036.5	1039.6	1043.7
22.5°	1001.2	1001.2	1010.5	1014.7	1020.9
25°	973.2	972.2	983.6	989.8	993.9
27.5°	940.0	941.0	955.6	961.8	967.0
30°	904.7	906.8	923.4	930.7	937.9
32.5°	867.4	871.5	890.2	898.5	905.8
35°	829.0	834.2	854.9	864.3	872.6
37.5°	790.6	797.9	819.6	829.0	838.3
40°	750.1	756.4	781.3	792.7	804.1
42.5°	708.6	716.9	741.8	758.4	771.9
45°	666.1	675.4	702.4	723.2	738.7
47.5°	623.6	636.0	661.9	690.0	703.4
50°	581.0	593.5	622.5	653.6	667.1
52.5°	537.4	549.9	583.1	615.3	629.8
55°	495.9	508.4	543.7	578.9	593.5
57.5°	452.4	465.8	505.3	541.6	556.1
60°	409.8	423.3	465.8	504.2	519.8
62.5°	368.3	382.8	427.5	467.9	483.5
65°	325.8	342.4	389.1	431.6	448.2
67.5°	284.3	303.0	351.7	396.3	414.0
70°	242.8	264.6	316.4	362.1	379.7
72.5°	202.3	226.2	281.2	326.8	336.2
75°	162.9	190.9	248.0	269.8	267.7
77.5°	125.5	156.7	210.6	214.8	221.0
80°	91.3	125.5	157.7	166.0	161.9
82.5°	60.2	94.4	113.1	108.9	107.9
85°	34.2	59.1	63.3	58.1	58.1
87.5°	14.5	23.9	20.8	15.6	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)