

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: P261130

Luminaire Tested: **24CZ-LD5-30-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261130
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-LD5-30-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3273.0 lumens
Efficiency: N/A
Efficacy: 160.0 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

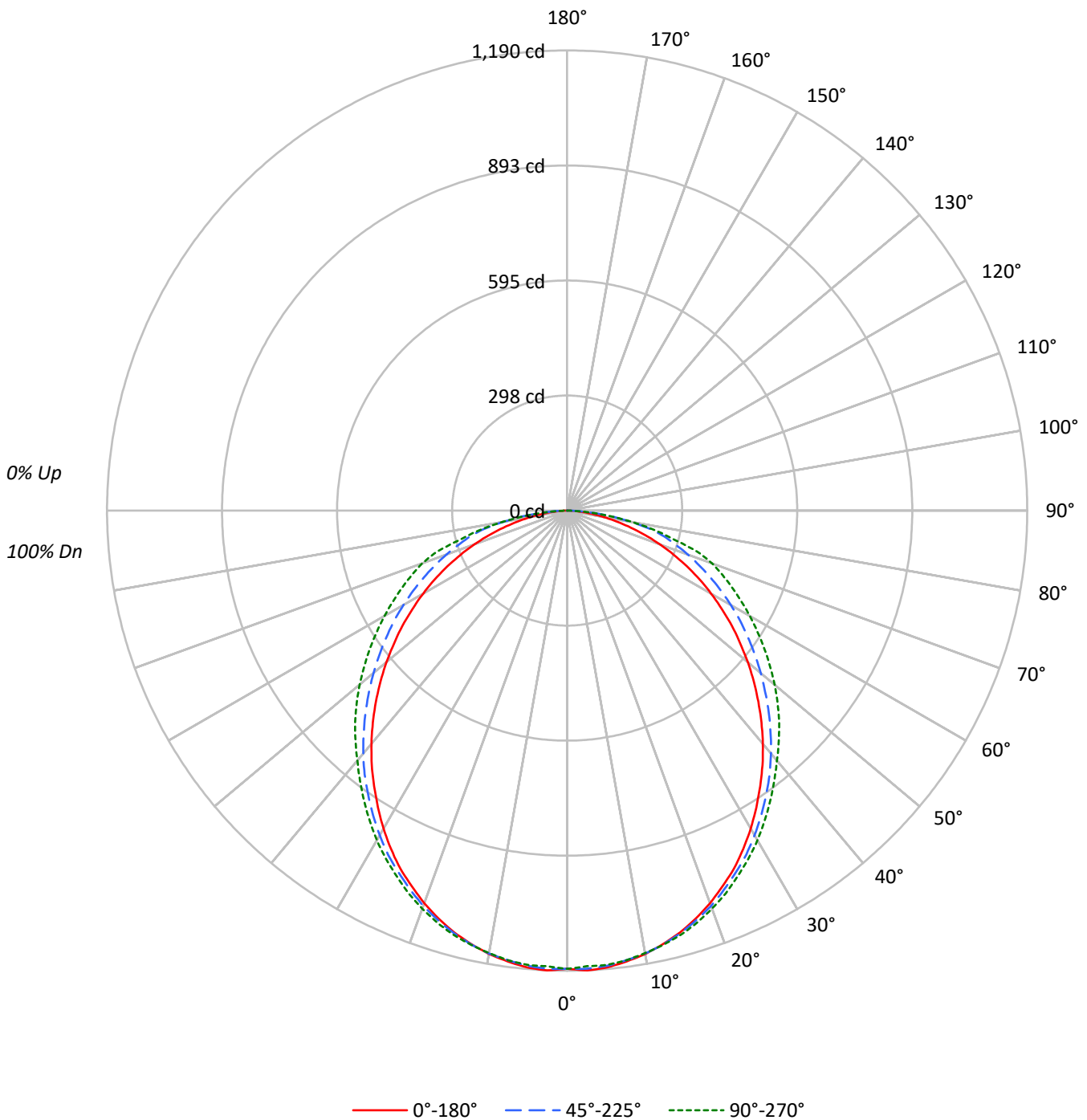
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1594	1594	1594
5°	1602	1596	1593
10°	1591	1589	1588
15°	1573	1576	1582
20°	1547	1558	1569
25°	1517	1533	1549
30°	1475	1506	1530
35°	1429	1474	1504
40°	1383	1440	1482
45°	1330	1403	1475
50°	1277	1368	1466
55°	1221	1339	1461
60°	1158	1316	1468
65°	1089	1300	1498
70°	1002	1307	1568
75°	889	1353	1461
80°	742	1282	1316
85°	554	1025	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.4
10°-20°	318.6	9.7
20°-30°	474.8	14.5
30°-40°	558.9	17.1
40°-50°	568.0	17.4
50°-60°	510.7	15.6
60°-70°	403.4	12.3
70°-80°	255.9	7.8
80°-90°	70.6	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°	905.4	27.7
0°-40°	1464.4	44.7
0°-60°	2543.0	77.7
0°-90°	3273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1186	1176	1182	1179	1179	112
15°	1129	1124	1132	1135	1136	318
25°	1022	1020	1032	1039	1043	470
35°	870	876	897	907	916	544
45°	699	709	737	759	775	539
55°	521	534	571	608	623	465
65°	342	359	408	453	470	339
75°	171	200	260	283	281	182
85°	36	62	66	61	61	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1190.3	1181.6	1186.0	1183.8	1179.4
5°	1186.0	1176.2	1181.6	1179.4	1179.4
7.5°	1176.2	1168.6	1172.9	1171.8	1172.9
10°	1164.2	1156.6	1163.1	1163.1	1162.0
12.5°	1147.9	1141.3	1148.9	1148.9	1150.0
15°	1129.3	1123.9	1131.5	1134.8	1135.9
17.5°	1106.5	1101.0	1110.8	1114.1	1117.4
20°	1080.3	1078.2	1088.0	1091.2	1095.6
22.5°	1050.9	1050.9	1060.7	1065.1	1071.6
25°	1021.5	1020.4	1032.4	1039.0	1043.3
27.5°	986.7	987.8	1003.0	1009.5	1015.0
30°	949.7	951.8	969.3	976.9	984.5
32.5°	910.4	914.8	934.4	943.1	950.7
35°	870.2	875.6	897.4	907.2	915.9
37.5°	829.9	837.5	860.3	870.2	880.0
40°	787.4	793.9	820.1	832.0	844.0
42.5°	743.8	752.5	778.7	796.1	810.3
45°	699.2	709.0	737.3	759.1	775.4
47.5°	654.5	667.6	694.8	724.2	738.4
50°	609.9	622.9	653.4	686.1	700.3
52.5°	564.1	577.2	612.0	645.8	661.1
55°	520.6	533.6	570.7	607.7	622.9
57.5°	474.8	489.0	530.4	568.5	583.7
60°	430.2	444.3	489.0	529.3	545.6
62.5°	386.6	401.9	448.7	491.2	507.5
65°	342.0	359.4	408.4	453.0	470.5
67.5°	298.4	318.0	369.2	416.0	434.5
70°	254.8	277.7	332.2	380.1	398.6
72.5°	212.4	237.4	295.1	343.1	352.9
75°	171.0	200.4	260.3	283.2	281.0
77.5°	131.8	164.4	221.1	225.4	232.0
80°	95.8	131.8	165.5	174.2	169.9
82.5°	63.2	99.1	118.7	114.4	113.3
85°	35.9	62.1	66.4	61.0	61.0
87.5°	15.2	25.0	21.8	16.3	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)