

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: P261128

Luminaire Tested: **24CZ-LD5-30-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261128
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3256.0 lumens
Efficiency: N/A
Efficacy: 161.3 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

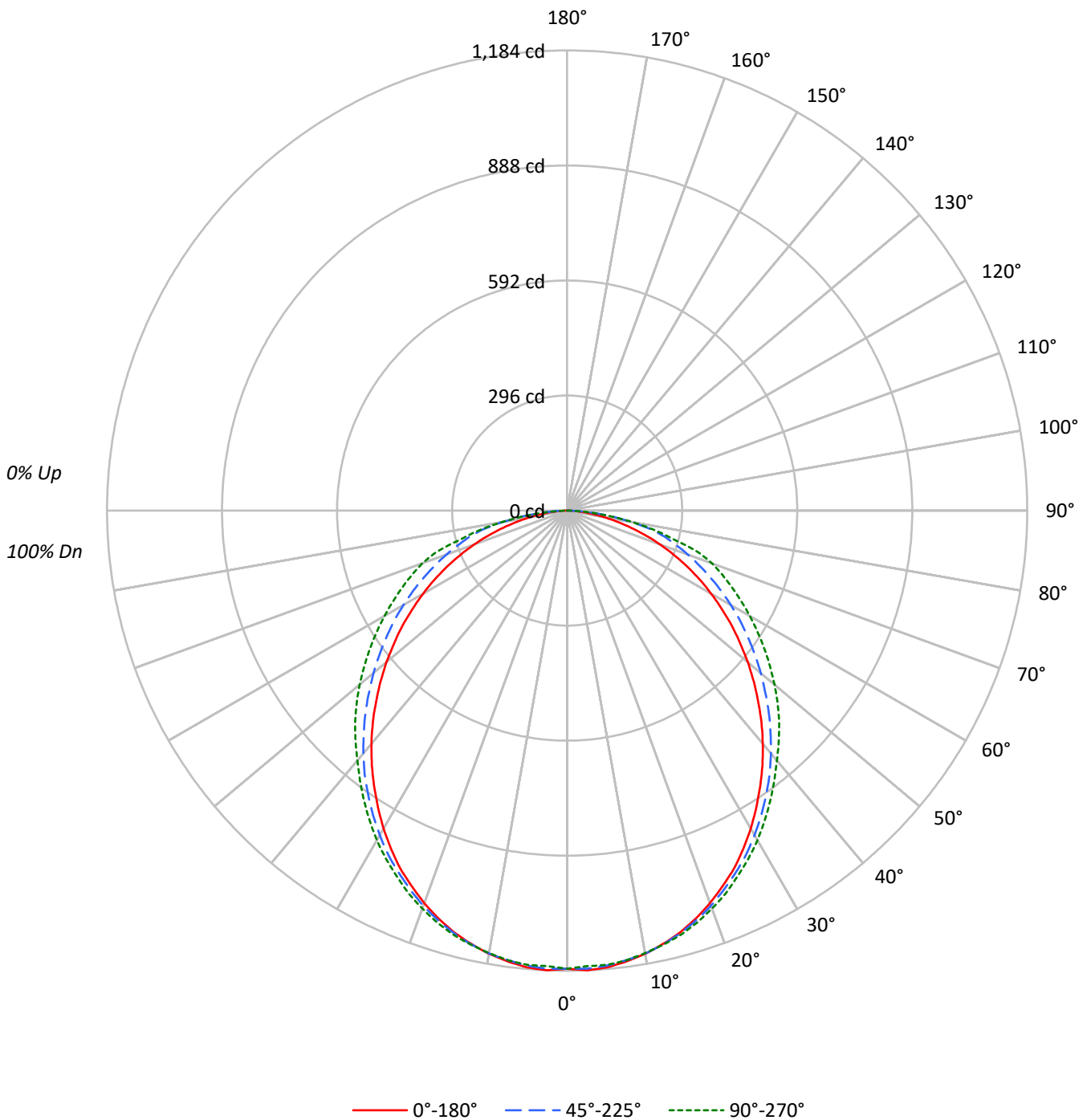
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1586	1586	1586
5°	1593	1588	1585
10°	1582	1581	1579
15°	1565	1568	1574
20°	1539	1550	1561
25°	1509	1525	1541
30°	1468	1498	1522
35°	1422	1466	1497
40°	1376	1433	1475
45°	1323	1396	1468
50°	1270	1361	1458
55°	1215	1332	1454
60°	1151	1309	1461
65°	1083	1294	1490
70°	997	1300	1560
75°	884	1346	1453
80°	738	1276	1309
85°	553	1020	937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.4
10°-20°	317.0	9.7
20°-30°	472.3	14.5
30°-40°	556.0	17.1
40°-50°	565.0	17.4
50°-60°	508.0	15.6
60°-70°	401.3	12.3
70°-80°	254.6	7.8
80°-90°	70.3	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°	900.7	27.7
0°-40°	1456.7	44.7
0°-60°	2529.8	77.7
0°-90°	3256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1180	1170	1176	1173	1173	112
15°	1124	1118	1126	1129	1130	316
25°	1016	1015	1027	1034	1038	467
35°	866	871	893	902	911	542
45°	696	705	734	755	771	537
55°	518	531	568	604	620	462
65°	340	358	406	451	468	337
75°	170	199	259	282	280	181
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°	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1184.1	1175.5	1179.8	1177.6	1173.3
5°	1179.8	1170.1	1175.5	1173.3	1173.3
7.5°	1170.1	1162.5	1166.8	1165.7	1166.8
10°	1158.1	1150.6	1157.1	1157.1	1156.0
12.5°	1141.9	1135.4	1143.0	1143.0	1144.1
15°	1123.5	1118.1	1125.6	1128.9	1130.0
17.5°	1100.7	1095.3	1105.1	1108.3	1111.6
20°	1074.7	1072.6	1082.3	1085.6	1089.9
22.5°	1045.5	1045.5	1055.2	1059.6	1066.1
25°	1016.2	1015.1	1027.1	1033.6	1037.9
27.5°	981.6	982.6	997.8	1004.3	1009.7
30°	944.7	946.9	964.2	971.8	979.4
32.5°	905.7	910.1	929.6	938.2	945.8
35°	865.6	871.0	892.7	902.5	911.1
37.5°	825.5	833.1	855.9	865.6	875.4
40°	783.3	789.8	815.8	827.7	839.6
42.5°	740.0	748.6	774.6	792.0	806.0
45°	695.5	705.3	733.5	755.1	771.4
47.5°	651.1	664.1	691.2	720.5	734.5
50°	606.7	619.7	650.0	682.5	696.6
52.5°	561.2	574.2	608.9	642.5	657.6
55°	517.9	530.9	567.7	604.5	619.7
57.5°	472.4	486.4	527.6	565.5	580.7
60°	427.9	442.0	486.4	526.5	542.8
62.5°	384.6	399.8	446.4	488.6	504.9
65°	340.2	357.5	406.3	450.7	468.0
67.5°	296.8	316.4	367.3	413.9	432.3
70°	253.5	276.3	330.4	378.1	396.5
72.5°	211.3	236.2	293.6	341.3	351.0
75°	170.1	199.3	258.9	281.7	279.5
77.5°	131.1	163.6	219.9	224.3	230.8
80°	95.3	131.1	164.7	173.3	169.0
82.5°	62.8	98.6	118.1	113.8	112.7
85°	35.8	61.8	66.1	60.7	60.7
87.5°	15.2	24.9	21.7	16.3	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)