

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: P260707

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-30-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3161.0 lumens  
Efficiency: N/A  
Efficacy: 157.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

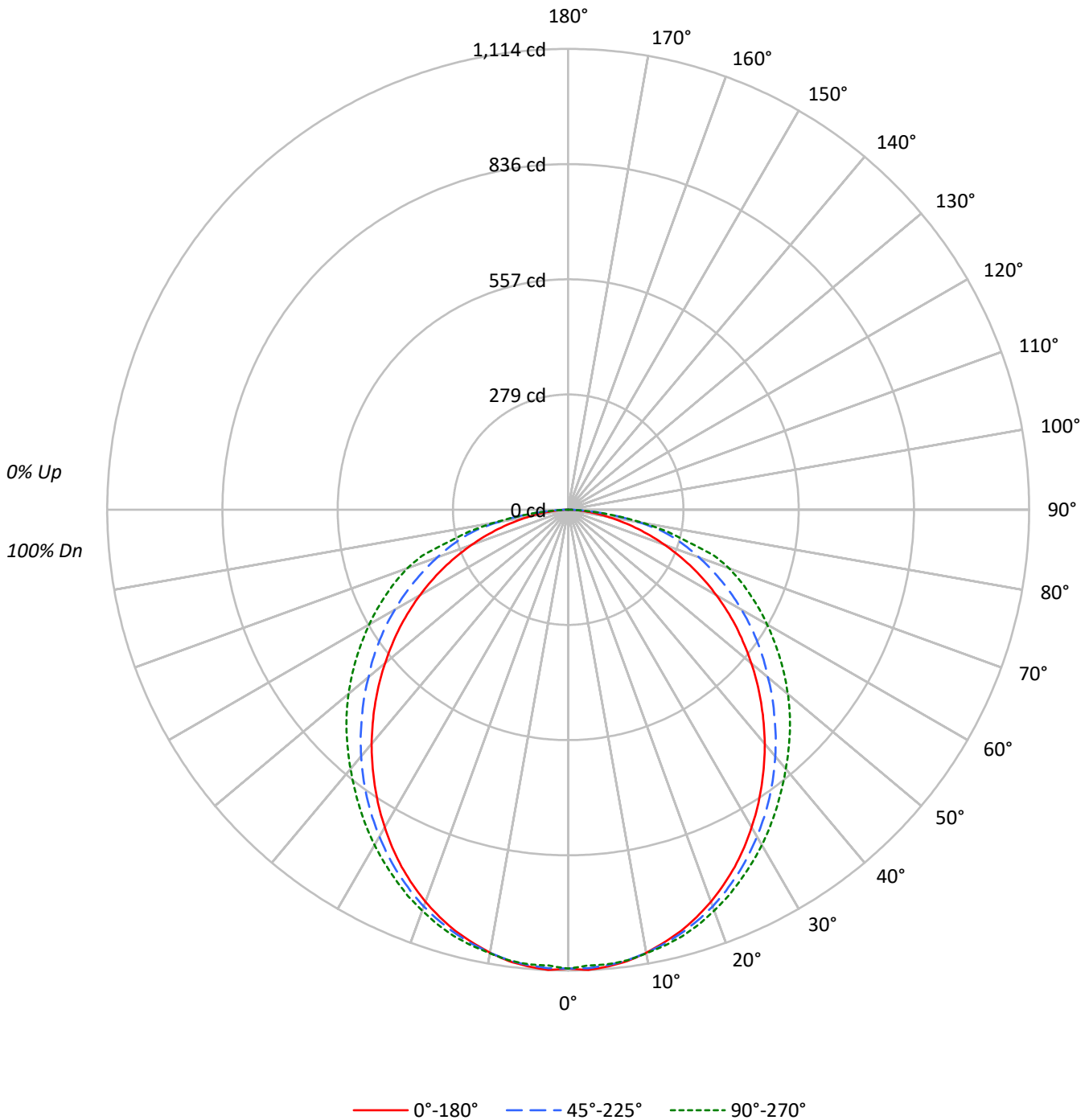
Input Watts (W): 20.088  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1493	1493	1493
5°	1497	1492	1490
10°	1486	1486	1488
15°	1468	1476	1486
20°	1444	1461	1477
25°	1414	1441	1465
30°	1377	1418	1455
35°	1339	1394	1443
40°	1298	1367	1437
45°	1254	1341	1442
50°	1210	1319	1450
55°	1165	1310	1465
60°	1112	1302	1494
65°	1054	1302	1544
70°	975	1324	1626
75°	872	1384	1547
80°	730	1325	1417
85°	551	1019	969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	3.3
10°-20°	298.4	9.4
20°-30°	446.0	14.1
30°-40°	529.1	16.7
40°-50°	544.6	17.2
50°-60°	499.6	15.8
60°-70°	404.0	12.8
70°-80°	262.2	8.3
80°-90°	72.3	2.3
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°	849.2	26.9
0°-40°	1378.4	43.6
0°-60°	2422.6	76.6
0°-90°	3161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1108	1101	1105	1104	1103	105
15°	1054	1050	1060	1064	1067	297
25°	952	954	971	980	987	438
35°	815	822	848	867	879	510
45°	659	670	705	738	758	509
55°	497	512	558	604	624	444
65°	331	351	409	463	485	327
75°	168	199	266	298	298	178
85°	36	61	66	64	63	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1109.3	1109.3	1109.3	1109.3	1109.3
2.5°	1113.7	1105.0	1109.3	1108.3	1102.9
5°	1108.3	1100.7	1105.0	1103.9	1102.9
7.5°	1100.7	1093.1	1098.5	1097.4	1098.5
10°	1087.7	1081.2	1087.7	1088.8	1088.8
12.5°	1071.5	1066.1	1074.7	1076.9	1079.0
15°	1054.1	1049.8	1059.6	1063.9	1067.1
17.5°	1032.5	1029.3	1041.2	1046.6	1050.9
20°	1008.7	1007.6	1020.6	1026.0	1031.4
22.5°	981.6	981.6	996.8	1003.3	1010.9
25°	952.4	953.5	970.8	979.5	987.0
27.5°	921.0	922.1	942.7	953.5	962.2
30°	886.4	890.7	912.4	926.4	936.2
32.5°	851.8	857.2	881.0	897.2	908.0
35°	815.0	821.5	848.5	866.9	878.8
37.5°	777.1	784.7	813.9	834.4	848.5
40°	739.2	747.9	778.2	802.0	818.2
42.5°	699.2	708.9	742.5	770.6	787.9
45°	659.1	669.9	704.6	738.1	757.6
47.5°	619.1	632.1	668.9	705.7	726.2
50°	577.9	590.9	629.9	672.1	692.7
52.5°	536.8	552.0	595.3	638.6	659.1
55°	496.8	511.9	558.5	603.9	624.5
57.5°	455.6	470.8	521.7	569.3	589.8
60°	413.4	430.8	483.8	532.5	555.2
62.5°	372.3	390.7	447.0	498.9	520.6
65°	331.2	350.7	409.1	463.2	484.9
67.5°	289.0	311.7	372.3	427.5	450.2
70°	247.8	272.7	336.6	391.8	413.4
72.5°	207.8	234.9	300.9	357.2	370.1
75°	167.8	199.1	266.2	297.6	297.6
77.5°	129.9	164.5	227.3	239.2	245.7
80°	94.2	132.0	171.0	185.1	182.9
82.5°	62.8	100.7	122.3	122.3	119.1
85°	35.7	60.6	66.0	63.9	62.8
87.5°	15.2	22.7	20.6	16.2	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)