

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: P261139

Luminaire Tested: **24CZ-LD5-35-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261139  
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-LD5-35-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: 3752.0 lumens  
Efficiency: N/A  
Efficacy: 148.3 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

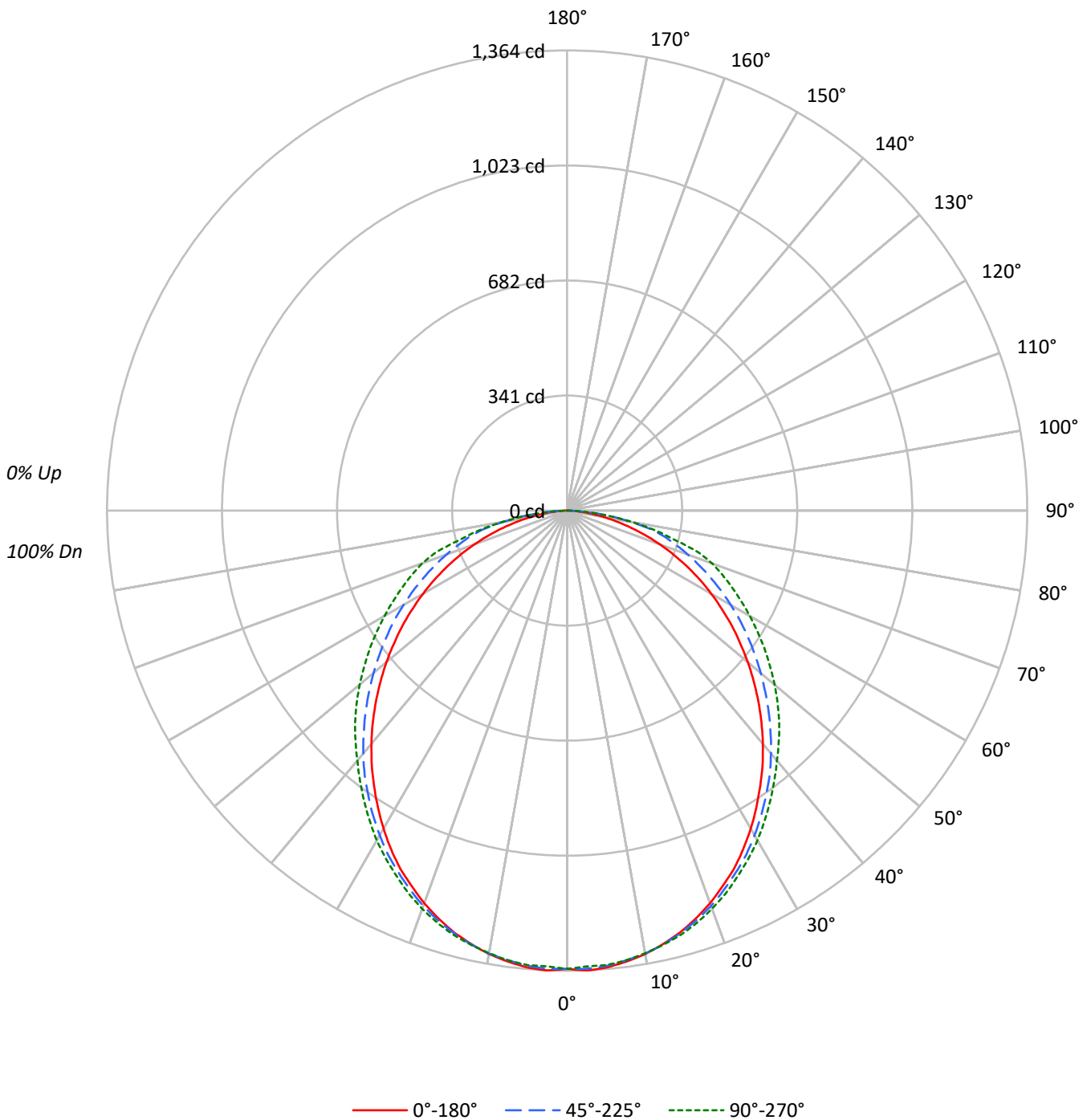
Input Watts (W): 25.296  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1828	1828	1828
5°	1836	1829	1826
10°	1823	1822	1820
15°	1803	1807	1814
20°	1773	1786	1798
25°	1738	1757	1776
30°	1691	1726	1753
35°	1638	1690	1725
40°	1585	1651	1699
45°	1525	1608	1691
50°	1463	1568	1680
55°	1400	1535	1675
60°	1327	1508	1683
65°	1248	1491	1717
70°	1149	1498	1797
75°	1019	1551	1674
80°	852	1471	1509
85°	636	1176	1079



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.4	3.4
10°-20°	365.2	9.7
20°-30°	544.3	14.5
30°-40°	640.7	17.1
40°-50°	651.1	17.4
50°-60°	585.4	15.6
60°-70°	462.5	12.3
70°-80°	293.4	7.8
80°-90°	81.0	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°	1037.9	27.7
0°-40°	1678.7	44.7
0°-60°	2915.2	77.7
0°-90°	3752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1360	1348	1354	1352	1352	129
15°	1295	1288	1297	1301	1302	365
25°	1171	1170	1184	1191	1196	538
35°	998	1004	1029	1040	1050	624
45°	802	813	845	870	889	618
55°	597	612	654	697	714	533
65°	392	412	468	519	539	388
75°	196	230	298	325	322	209
85°	41	71	76	70	70	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1358.3	1358.3	1358.3	1358.3	1358.3
2.5°	1364.5	1354.5	1359.5	1357.0	1352.1
5°	1359.5	1348.3	1354.5	1352.1	1352.1
7.5°	1348.3	1339.6	1344.6	1343.3	1344.6
10°	1334.6	1325.8	1333.3	1333.3	1332.1
12.5°	1315.8	1308.4	1317.1	1317.1	1318.3
15°	1294.6	1288.4	1297.1	1300.9	1302.1
17.5°	1268.4	1262.2	1273.4	1277.1	1280.9
20°	1238.4	1235.9	1247.2	1250.9	1255.9
22.5°	1204.7	1204.7	1216.0	1221.0	1228.5
25°	1171.0	1169.8	1183.5	1191.0	1196.0
27.5°	1131.1	1132.3	1149.8	1157.3	1163.5
30°	1088.6	1091.1	1111.1	1119.8	1128.6
32.5°	1043.7	1048.7	1071.2	1081.1	1089.9
35°	997.5	1003.7	1028.7	1039.9	1049.9
37.5°	951.3	960.0	986.3	997.5	1008.7
40°	902.6	910.1	940.1	953.8	967.5
42.5°	852.7	862.7	892.6	912.6	928.8
45°	801.5	812.7	845.2	870.2	888.9
47.5°	750.3	765.3	796.5	830.2	846.4
50°	699.1	714.1	749.1	786.5	802.7
52.5°	646.7	661.7	701.6	740.3	757.8
55°	596.8	611.7	654.2	696.6	714.1
57.5°	544.3	560.5	608.0	651.7	669.2
60°	493.1	509.4	560.5	606.7	625.5
62.5°	443.2	460.7	514.4	563.0	581.8
65°	392.0	412.0	468.2	519.3	539.3
67.5°	342.1	364.5	423.2	476.9	498.1
70°	292.1	318.3	380.8	435.7	456.9
72.5°	243.4	272.2	338.3	393.3	404.5
75°	196.0	229.7	298.4	324.6	322.1
77.5°	151.1	188.5	253.4	258.4	265.9
80°	109.9	151.1	189.8	199.7	194.8
82.5°	72.4	113.6	136.1	131.1	129.8
85°	41.2	71.2	76.2	69.9	69.9
87.5°	17.5	28.7	25.0	18.7	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)