

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: P260951

Luminaire Tested: **24CZ-LD5-40SE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260951
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-LD5-40SE-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3800.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

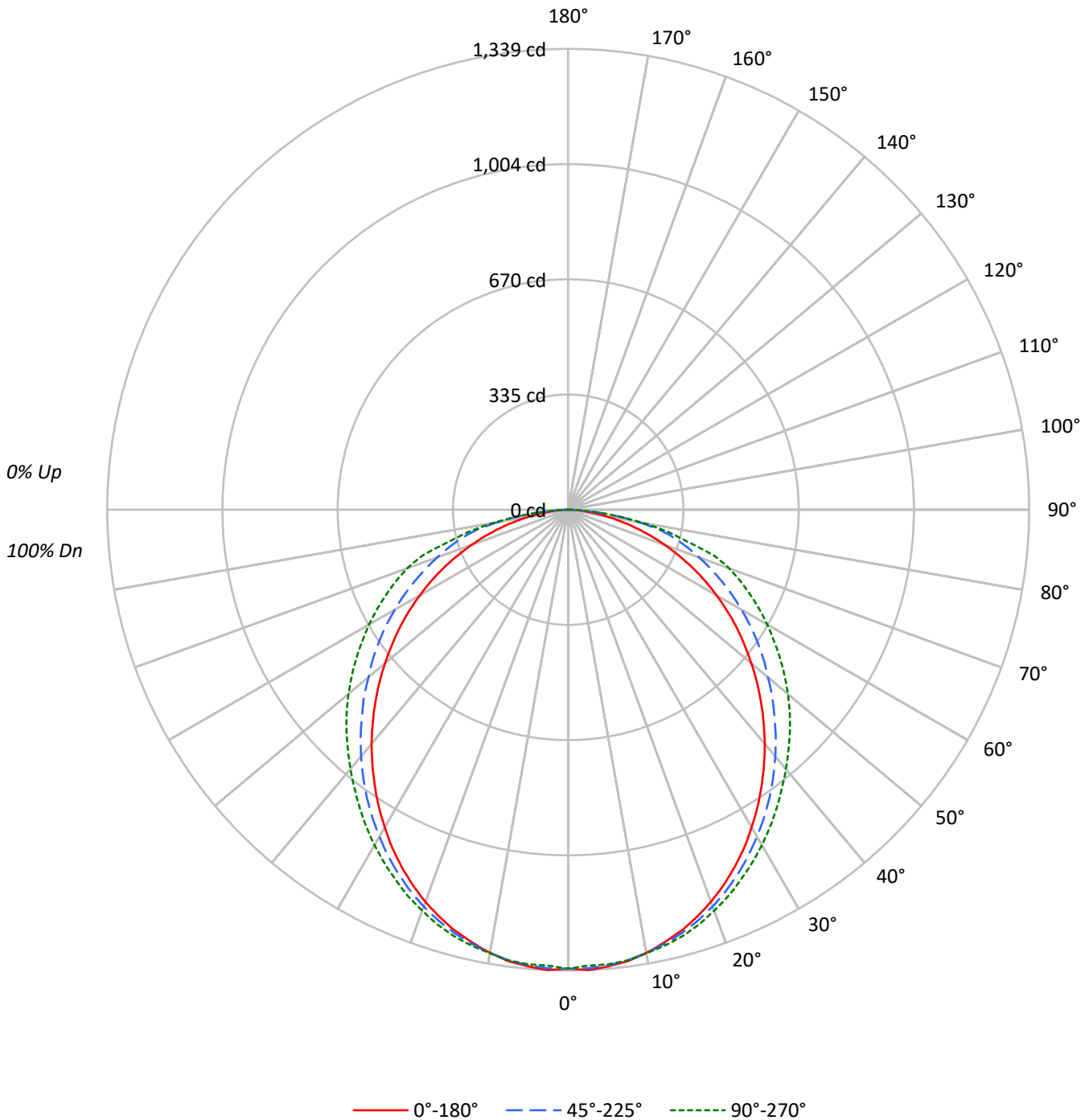
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1794	1794	1794
5°	1799	1794	1791
10°	1787	1787	1788
15°	1765	1774	1787
20°	1736	1757	1775
25°	1700	1733	1762
30°	1656	1704	1748
35°	1609	1675	1735
40°	1561	1643	1728
45°	1508	1612	1733
50°	1454	1585	1743
55°	1401	1575	1761
60°	1337	1565	1796
65°	1267	1566	1856
70°	1172	1592	1955
75°	1049	1664	1860
80°	877	1593	1704
85°	662	1226	1166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.3
10°-20°	358.7	9.4
20°-30°	536.2	14.1
30°-40°	636.1	16.7
40°-50°	654.7	17.2
50°-60°	600.6	15.8
60°-70°	485.6	12.8
70°-80°	315.2	8.3
80°-90°	86.9	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°	1020.9	26.9
0°-40°	1657.0	43.6
0°-60°	2912.3	76.6
0°-90°	3800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1332	1323	1328	1327	1326	126
15°	1267	1262	1274	1279	1283	357
25°	1145	1146	1167	1178	1187	527
35°	980	988	1020	1042	1056	613
45°	792	805	847	887	911	611
55°	597	615	671	726	751	534
65°	398	422	492	557	583	393
75°	202	239	320	358	358	214
85°	43	73	79	77	76	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.6	1333.6	1333.6	1333.6	1333.6
2.5°	1338.8	1328.4	1333.6	1332.3	1325.8
5°	1332.3	1323.2	1328.4	1327.1	1325.8
7.5°	1323.2	1314.1	1320.6	1319.3	1320.6
10°	1307.6	1299.8	1307.6	1308.9	1308.9
12.5°	1288.1	1281.6	1292.0	1294.6	1297.2
15°	1267.2	1262.0	1273.8	1279.0	1282.9
17.5°	1241.2	1237.3	1251.6	1258.1	1263.3
20°	1212.6	1211.3	1226.9	1233.4	1239.9
22.5°	1180.1	1180.1	1198.3	1206.1	1215.2
25°	1144.9	1146.2	1167.1	1177.5	1186.6
27.5°	1107.2	1108.5	1133.2	1146.2	1156.7
30°	1065.6	1070.8	1096.8	1113.7	1125.4
32.5°	1023.9	1030.5	1059.1	1078.6	1091.6
35°	979.7	987.5	1020.0	1042.2	1056.5
37.5°	934.2	943.3	978.4	1003.1	1020.0
40°	888.6	899.0	935.5	964.1	983.6
42.5°	840.5	852.2	892.5	926.4	947.2
45°	792.4	805.4	847.0	887.3	910.8
47.5°	744.2	759.8	804.1	848.3	873.0
50°	694.8	710.4	757.2	808.0	832.7
52.5°	645.3	663.5	715.6	767.6	792.4
55°	597.2	615.4	671.4	726.0	750.7
57.5°	547.8	566.0	627.1	684.4	709.1
60°	497.0	517.8	581.6	640.1	667.5
62.5°	447.6	469.7	537.3	599.8	625.8
65°	398.1	421.5	491.8	556.9	582.9
67.5°	347.4	374.7	447.6	513.9	541.2
70°	297.9	327.9	404.6	471.0	497.0
72.5°	249.8	282.3	361.7	429.4	445.0
75°	201.7	239.4	320.1	357.8	357.8
77.5°	156.1	197.8	273.2	287.5	295.3
80°	113.2	158.7	205.6	222.5	219.9
82.5°	75.5	121.0	147.0	147.0	143.1
85°	42.9	72.9	79.4	76.8	75.5
87.5°	18.2	27.3	24.7	19.5	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)