

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: P261376

Luminaire Tested: **24CZ-LD5-45SE-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261376
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-LD5-45SE-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3956.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

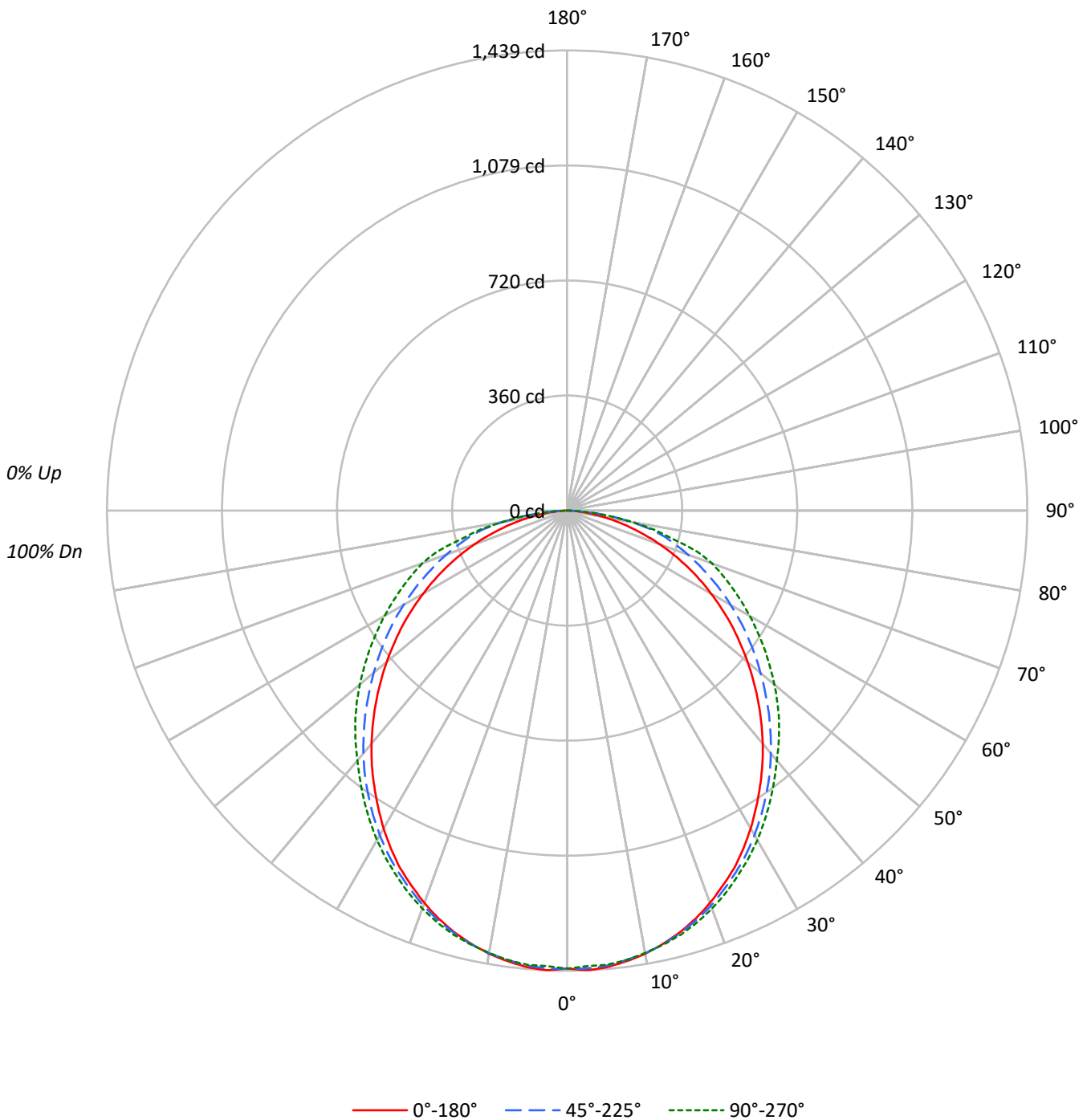
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1927	1927	1927
5°	1936	1929	1925
10°	1922	1921	1919
15°	1901	1905	1912
20°	1870	1883	1896
25°	1833	1853	1872
30°	1783	1820	1849
35°	1727	1781	1818
40°	1672	1741	1792
45°	1608	1696	1783
50°	1543	1653	1772
55°	1476	1618	1766
60°	1399	1590	1775
65°	1316	1571	1810
70°	1212	1579	1895
75°	1075	1635	1765
80°	897	1550	1591
85°	670	1240	1138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.4
10°-20°	385.1	9.7
20°-30°	573.9	14.5
30°-40°	675.5	17.1
40°-50°	686.5	17.4
50°-60°	617.2	15.6
60°-70°	487.6	12.3
70°-80°	309.4	7.8
80°-90°	85.4	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°	1094.4	27.7
0°-40°	1769.9	44.7
0°-60°	3073.6	77.7
0°-90°	3956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1434	1422	1428	1426	1426	136
15°	1365	1358	1368	1372	1373	385
25°	1235	1233	1248	1256	1261	568
35°	1052	1058	1085	1096	1107	658
45°	845	857	891	918	937	652
55°	629	645	690	734	753	562
65°	413	434	494	548	569	409
75°	207	242	315	342	340	220
85°	43	75	80	74	74	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.1	1432.1	1432.1	1432.1	1432.1
2.5°	1438.7	1428.2	1433.5	1430.8	1425.6
5°	1433.5	1421.6	1428.2	1425.6	1425.6
7.5°	1421.6	1412.4	1417.7	1416.3	1417.7
10°	1407.1	1397.9	1405.8	1405.8	1404.5
12.5°	1387.4	1379.5	1388.7	1388.7	1390.0
15°	1365.0	1358.4	1367.6	1371.6	1372.9
17.5°	1337.4	1330.8	1342.6	1346.6	1350.5
20°	1305.8	1303.1	1315.0	1318.9	1324.2
22.5°	1270.2	1270.2	1282.1	1287.4	1295.2
25°	1234.7	1233.4	1247.9	1255.8	1261.0
27.5°	1192.6	1193.9	1212.3	1220.2	1226.8
30°	1147.8	1150.5	1171.5	1180.7	1189.9
32.5°	1100.4	1105.7	1129.4	1139.9	1149.1
35°	1051.7	1058.3	1084.6	1096.5	1107.0
37.5°	1003.0	1012.2	1039.9	1051.7	1063.6
40°	951.7	959.6	991.2	1005.7	1020.1
42.5°	899.0	909.6	941.2	962.2	979.3
45°	845.1	856.9	891.1	917.5	937.2
47.5°	791.1	806.9	839.8	875.3	892.5
50°	737.1	752.9	789.8	829.3	846.4
52.5°	681.8	697.6	739.8	780.6	799.0
55°	629.2	645.0	689.7	734.5	752.9
57.5°	573.9	591.0	641.0	687.1	705.5
60°	519.9	537.1	591.0	639.7	659.5
62.5°	467.3	485.7	542.3	593.7	613.4
65°	413.3	434.4	493.6	547.6	568.6
67.5°	360.7	384.4	446.2	502.8	525.2
70°	308.0	335.7	401.5	459.4	481.8
72.5°	256.7	287.0	356.7	414.6	426.5
75°	206.7	242.2	314.6	342.2	339.6
77.5°	159.3	198.8	267.2	272.5	280.4
80°	115.8	159.3	200.1	210.6	205.3
82.5°	76.3	119.8	143.5	138.2	136.9
85°	43.4	75.0	80.3	73.7	73.7
87.5°	18.4	30.3	26.3	19.7	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)