

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: P260957

Luminaire Tested: **24CZ-LD5-45SE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260957
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-LD5-45SE-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4003.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

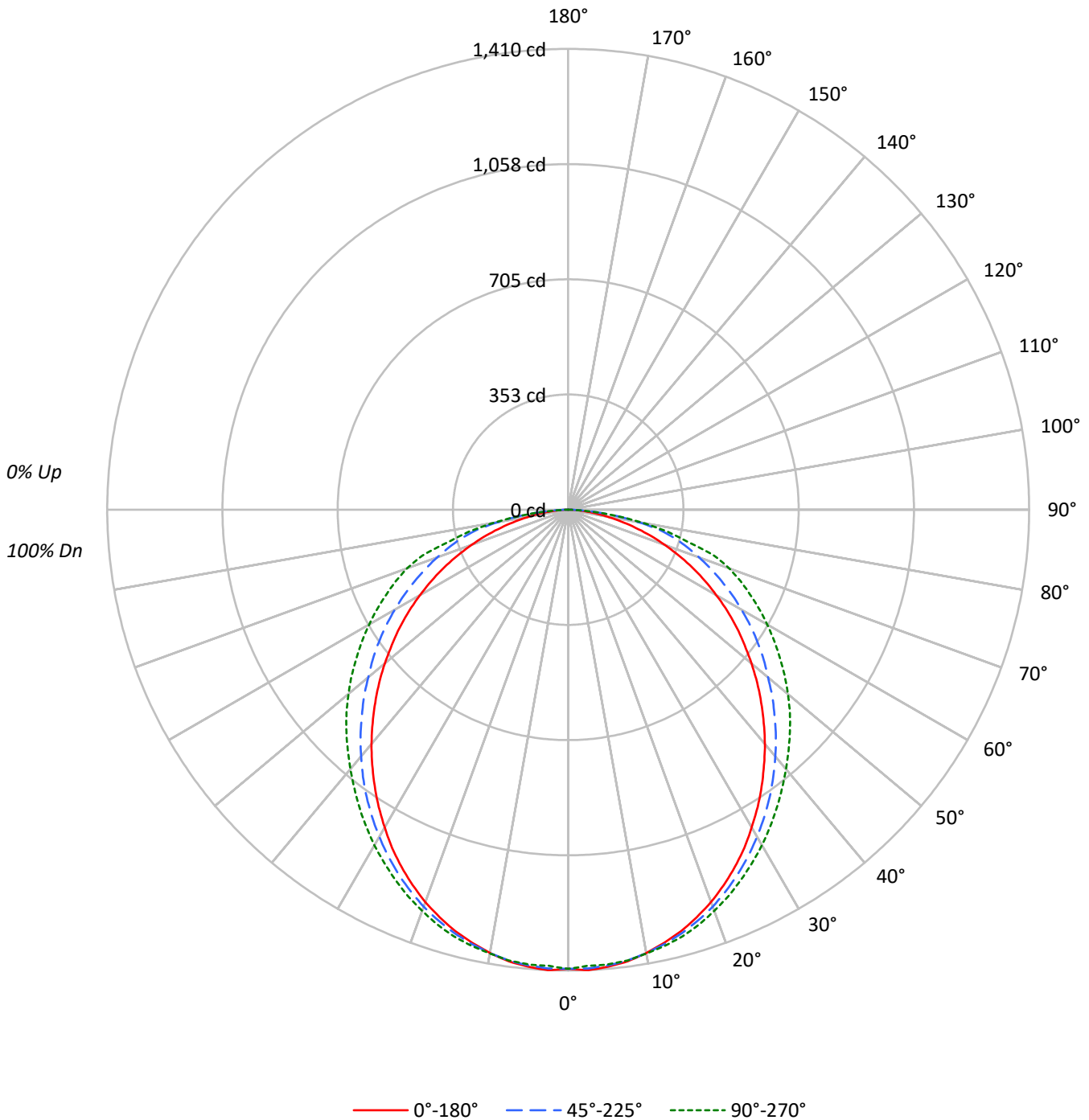
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1890	1890	1890
5°	1896	1890	1886
10°	1882	1882	1884
15°	1859	1869	1882
20°	1829	1851	1870
25°	1791	1825	1856
30°	1744	1795	1842
35°	1695	1765	1828
40°	1644	1731	1820
45°	1588	1698	1826
50°	1532	1670	1836
55°	1476	1659	1855
60°	1409	1648	1892
65°	1335	1649	1955
70°	1235	1677	2060
75°	1104	1753	1959
80°	924	1678	1795
85°	698	1291	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.3
10°-20°	377.8	9.4
20°-30°	564.8	14.1
30°-40°	670.1	16.7
40°-50°	689.7	17.2
50°-60°	632.7	15.8
60°-70°	511.6	12.8
70°-80°	332.0	8.3
80°-90°	91.6	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°	1075.4	26.9
0°-40°	1745.5	43.6
0°-60°	3067.9	76.6
0°-90°	4003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1405	1405	1405	1405	1405	
5°	1404	1394	1399	1398	1397	133
15°	1335	1330	1342	1347	1351	376
25°	1206	1208	1229	1240	1250	555
35°	1032	1040	1074	1098	1113	645
45°	835	848	892	935	959	644
55°	629	648	707	765	791	562
65°	419	444	518	587	614	414
75°	212	252	337	377	377	226
85°	45	77	84	81	80	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1404.8	1404.8	1404.8	1404.8	1404.8
2.5°	1410.3	1399.4	1404.8	1403.5	1396.6
5°	1403.5	1393.9	1399.4	1398.0	1396.6
7.5°	1393.9	1384.3	1391.1	1389.8	1391.1
10°	1377.4	1369.2	1377.4	1378.8	1378.8
12.5°	1356.9	1350.0	1361.0	1363.7	1366.5
15°	1334.9	1329.5	1341.8	1347.3	1351.4
17.5°	1307.5	1303.4	1318.5	1325.4	1330.8
20°	1277.4	1276.0	1292.5	1299.3	1306.2
22.5°	1243.1	1243.1	1262.3	1270.5	1280.1
25°	1206.1	1207.5	1229.4	1240.4	1250.0
27.5°	1166.4	1167.7	1193.8	1207.5	1218.4
30°	1122.5	1128.0	1155.4	1173.2	1185.6
32.5°	1078.6	1085.5	1115.7	1136.2	1149.9
35°	1032.0	1040.3	1074.5	1097.8	1112.9
37.5°	984.1	993.7	1030.7	1056.7	1074.5
40°	936.1	947.1	985.4	1015.6	1036.2
42.5°	885.4	897.7	940.2	975.9	997.8
45°	834.7	848.4	892.2	934.7	959.4
47.5°	784.0	800.4	847.0	893.6	919.7
50°	731.9	748.3	797.7	851.1	877.2
52.5°	679.8	699.0	753.8	808.6	834.7
55°	629.1	648.3	707.2	764.8	790.8
57.5°	577.0	596.2	660.6	720.9	747.0
60°	523.6	545.5	612.6	674.3	703.1
62.5°	471.5	494.8	566.0	631.8	659.2
65°	419.4	444.1	518.1	586.6	614.0
67.5°	365.9	394.7	471.5	541.4	570.2
70°	313.9	345.4	426.3	496.2	523.6
72.5°	263.2	297.4	381.0	452.3	468.7
75°	212.4	252.2	337.2	376.9	376.9
77.5°	164.5	208.3	287.8	302.9	311.1
80°	119.2	167.2	216.6	234.4	231.6
82.5°	79.5	127.5	154.9	154.9	150.8
85°	45.2	76.8	83.6	80.9	79.5
87.5°	19.2	28.8	26.0	20.6	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)