

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: P261290

Luminaire Tested: **24CZ-LD5-45-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261290
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-LD5-45-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4294.0 lumens
Efficiency: N/A
Efficacy: 133.1 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

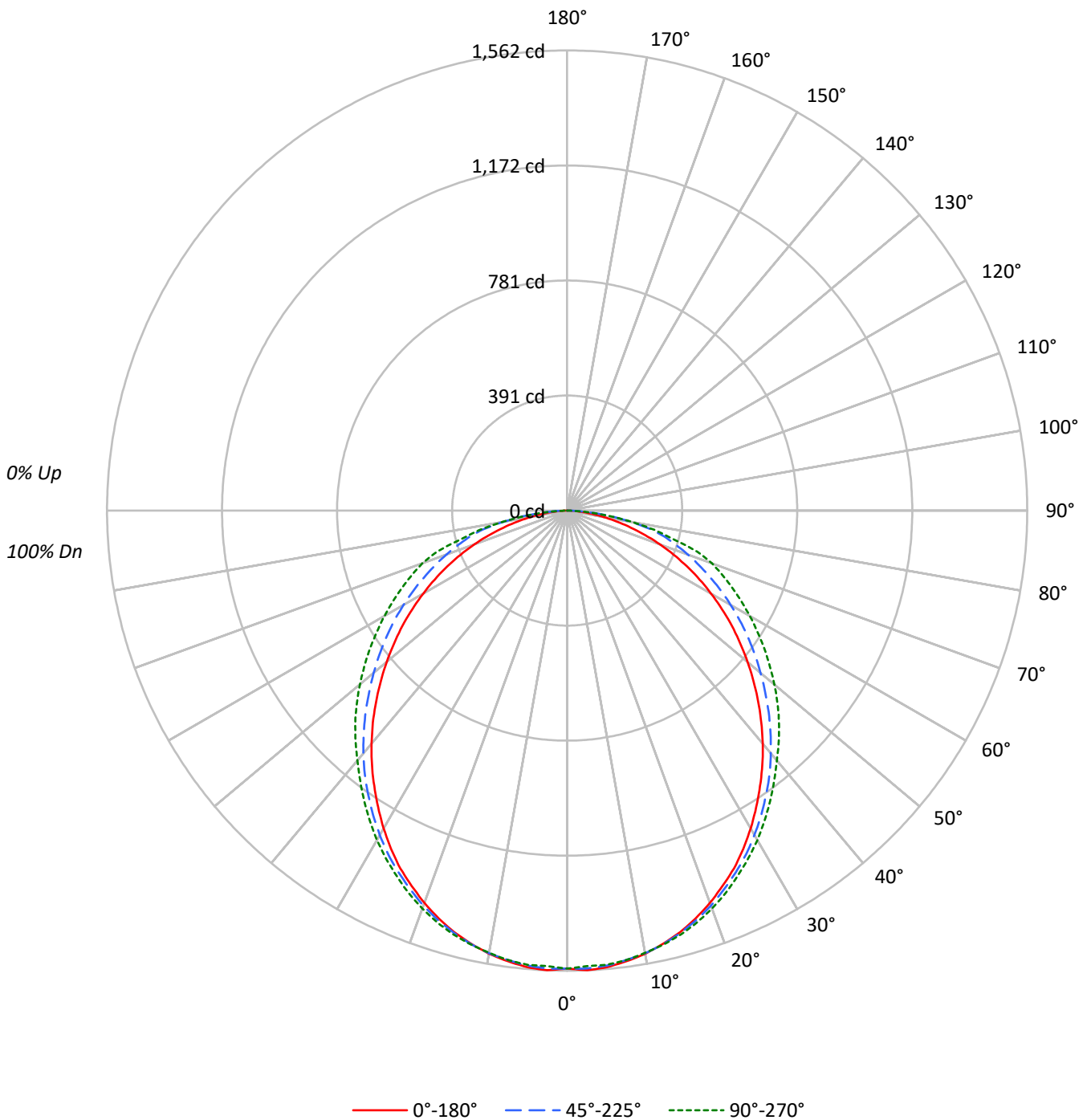
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2092	2092	2092
5°	2101	2094	2090
10°	2087	2085	2083
15°	2064	2068	2076
20°	2029	2044	2058
25°	1990	2011	2032
30°	1936	1976	2007
35°	1875	1934	1974
40°	1814	1890	1945
45°	1745	1841	1936
50°	1675	1795	1923
55°	1602	1756	1917
60°	1519	1726	1926
65°	1428	1706	1965
70°	1315	1714	2057
75°	1166	1775	1916
80°	974	1683	1727
85°	727	1346	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.4
10°-20°	418.0	9.7
20°-30°	622.9	14.5
30°-40°	733.3	17.1
40°-50°	745.2	17.4
50°-60°	670.0	15.6
60°-70°	529.3	12.3
70°-80°	335.8	7.8
80°-90°	92.7	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°	1187.9	27.7
0°-40°	1921.2	44.7
0°-60°	3336.3	77.7
0°-90°	4294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1556	1543	1550	1547	1547	148
15°	1482	1474	1484	1489	1490	417
25°	1340	1339	1354	1363	1369	616
35°	1142	1149	1177	1190	1202	714
45°	917	930	967	996	1017	708
55°	683	700	749	797	817	610
65°	449	472	536	594	617	444
75°	224	263	342	372	369	239
85°	47	81	87	80	80	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1561.7	1550.2	1555.9	1553.1	1547.4
5°	1555.9	1543.1	1550.2	1547.4	1547.4
7.5°	1543.1	1533.1	1538.8	1537.4	1538.8
10°	1527.4	1517.4	1525.9	1525.9	1524.5
12.5°	1505.9	1497.4	1507.4	1507.4	1508.8
15°	1481.6	1474.5	1484.5	1488.8	1490.2
17.5°	1451.6	1444.5	1457.4	1461.6	1465.9
20°	1417.3	1414.5	1427.3	1431.6	1437.3
22.5°	1378.8	1378.8	1391.6	1397.3	1405.9
25°	1340.2	1338.8	1354.5	1363.1	1368.8
27.5°	1294.5	1295.9	1315.9	1324.5	1331.6
30°	1245.9	1248.7	1271.6	1281.6	1291.6
32.5°	1194.5	1200.2	1225.9	1237.3	1247.3
35°	1141.6	1148.7	1177.3	1190.2	1201.6
37.5°	1088.7	1098.7	1128.7	1141.6	1154.5
40°	1033.0	1041.6	1075.9	1091.6	1107.3
42.5°	975.9	987.3	1021.6	1044.4	1063.0
45°	917.3	930.1	967.3	995.9	1017.3
47.5°	858.7	875.8	911.6	950.1	968.7
50°	800.1	817.3	857.3	900.1	918.7
52.5°	740.1	757.3	803.0	847.3	867.3
55°	683.0	700.1	748.7	797.3	817.3
57.5°	622.9	641.5	695.8	745.8	765.8
60°	564.4	582.9	641.5	694.4	715.8
62.5°	507.2	527.2	588.7	644.4	665.8
65°	448.6	471.5	535.8	594.4	617.2
67.5°	391.5	417.2	484.4	545.8	570.1
70°	334.3	364.3	435.8	498.6	522.9
72.5°	278.6	311.5	387.2	450.1	462.9
75°	224.3	262.9	341.5	371.5	368.6
77.5°	172.9	215.7	290.0	295.8	304.3
80°	125.7	172.9	217.2	228.6	222.9
82.5°	82.9	130.0	155.7	150.0	148.6
85°	47.1	81.4	87.2	80.0	80.0
87.5°	20.0	32.9	28.6	21.4	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)