

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: P261236

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261236
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-LD5-40SE-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4293.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

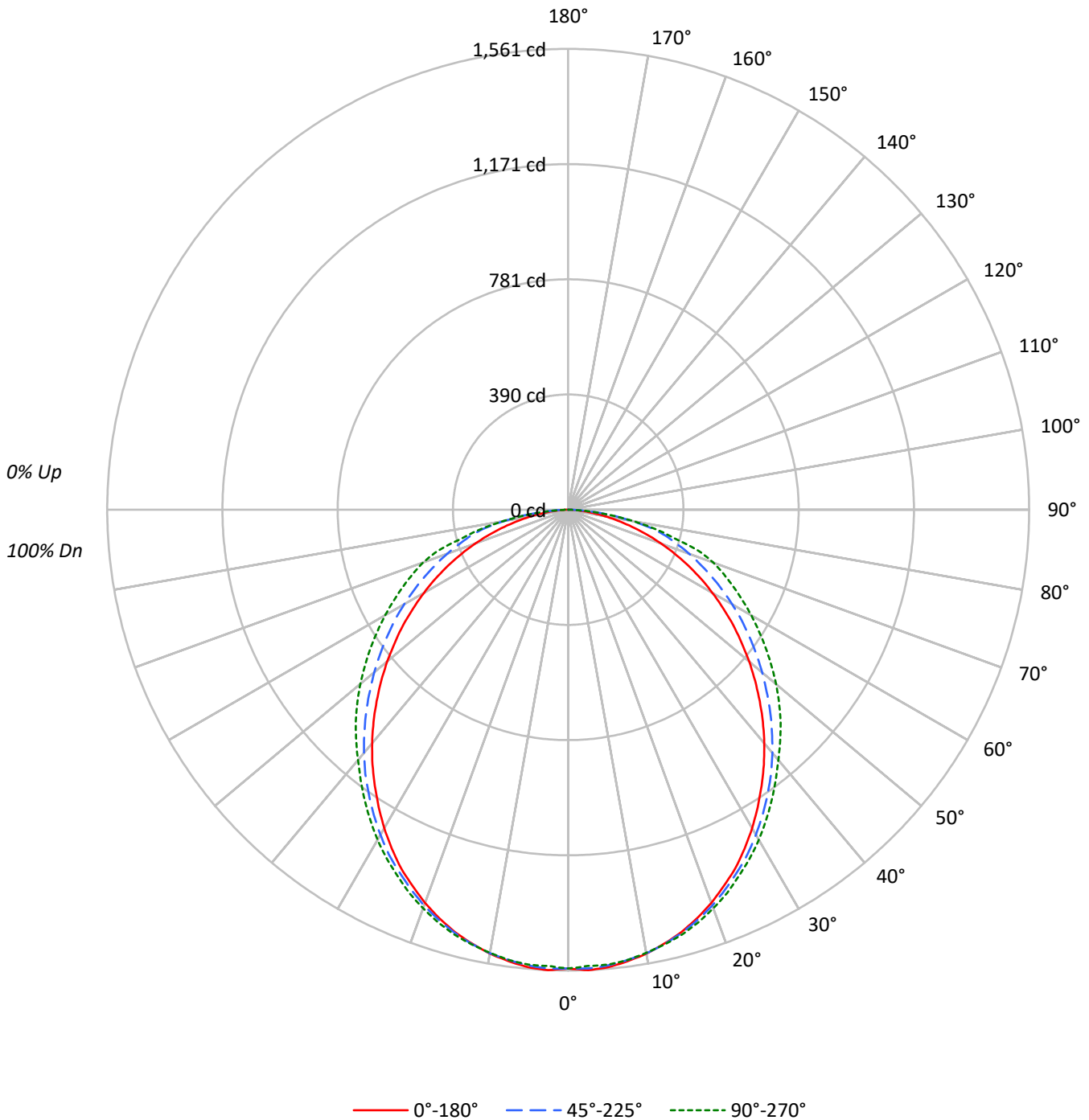
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2091	2091	2091
5°	2101	2093	2089
10°	2086	2084	2082
15°	2063	2067	2075
20°	2029	2043	2058
25°	1989	2010	2032
30°	1935	1975	2006
35°	1875	1933	1973
40°	1814	1889	1944
45°	1745	1840	1935
50°	1674	1794	1923
55°	1602	1756	1917
60°	1518	1726	1926
65°	1428	1706	1965
70°	1315	1714	2057
75°	1166	1775	1916
80°	974	1682	1726
85°	727	1345	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.4
10°-20°	417.9	9.7
20°-30°	622.8	14.5
30°-40°	733.1	17.1
40°-50°	745.0	17.4
50°-60°	669.8	15.6
60°-70°	529.2	12.3
70°-80°	335.7	7.8
80°-90°	92.6	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°	1187.6	27.7
0°-40°	1920.7	44.7
0°-60°	3335.5	77.7
0°-90°	4293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1556	1543	1550	1547	1547	147
15°	1481	1474	1484	1488	1490	417
25°	1340	1338	1354	1363	1368	616
35°	1141	1148	1177	1190	1201	714
45°	917	930	967	996	1017	708
55°	683	700	748	797	817	610
65°	448	471	536	594	617	444
75°	224	263	341	371	368	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°	1554.1	1554.1	1554.1	1554.1	1554.1
2.5°	1561.3	1549.9	1555.6	1552.7	1547.0
5°	1555.6	1542.7	1549.9	1547.0	1547.0
7.5°	1542.7	1532.7	1538.4	1537.0	1538.4
10°	1527.0	1517.0	1525.6	1525.6	1524.1
12.5°	1505.6	1497.0	1507.0	1507.0	1508.4
15°	1481.3	1474.2	1484.2	1488.4	1489.9
17.5°	1451.3	1444.2	1457.0	1461.3	1465.6
20°	1417.0	1414.2	1427.0	1431.3	1437.0
22.5°	1378.4	1378.4	1391.3	1397.0	1405.6
25°	1339.9	1338.5	1354.2	1362.7	1368.4
27.5°	1294.2	1295.6	1315.6	1324.2	1331.3
30°	1245.6	1248.5	1271.3	1281.3	1291.3
32.5°	1194.2	1199.9	1225.6	1237.0	1247.0
35°	1141.3	1148.5	1177.0	1189.9	1201.3
37.5°	1088.5	1098.5	1128.5	1141.3	1154.2
40°	1032.8	1041.3	1075.6	1091.3	1107.0
42.5°	975.6	987.1	1021.3	1044.2	1062.8
45°	917.1	929.9	967.1	995.6	1017.1
47.5°	858.5	875.6	911.3	949.9	968.5
50°	799.9	817.1	857.1	899.9	918.5
52.5°	739.9	757.1	802.8	847.1	867.1
55°	682.8	699.9	748.5	797.1	817.1
57.5°	622.8	641.4	695.7	745.6	765.6
60°	564.2	582.8	641.4	694.2	715.6
62.5°	507.1	527.1	588.5	644.2	665.7
65°	448.5	471.4	535.7	594.2	617.1
67.5°	391.4	417.1	484.2	545.7	569.9
70°	334.3	364.3	435.7	498.5	522.8
72.5°	278.5	311.4	387.1	450.0	462.8
75°	224.3	262.8	341.4	371.4	368.5
77.5°	172.8	215.7	290.0	295.7	304.3
80°	125.7	172.8	217.1	228.6	222.8
82.5°	82.8	130.0	155.7	150.0	148.6
85°	47.1	81.4	87.1	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)