

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: P261231

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261231
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3898.0 lumens
Efficiency: N/A
Efficacy: 129.0 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

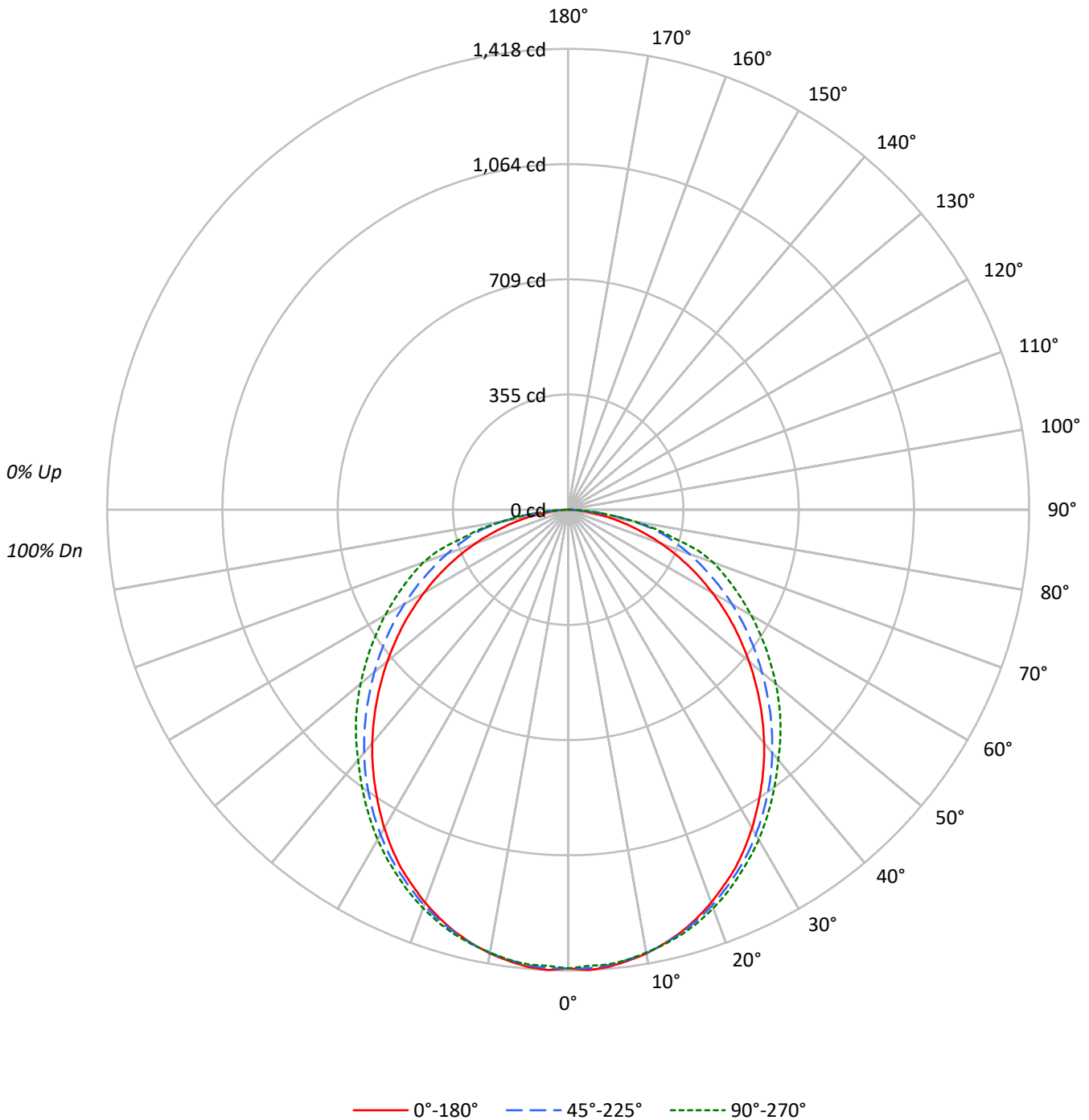
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1899	1899	1899
5°	1908	1901	1897
10°	1894	1893	1891
15°	1874	1877	1884
20°	1842	1855	1868
25°	1806	1825	1845
30°	1757	1793	1822
35°	1702	1755	1792
40°	1647	1715	1766
45°	1584	1671	1757
50°	1520	1629	1746
55°	1454	1594	1740
60°	1379	1567	1749
65°	1297	1549	1784
70°	1194	1556	1867
75°	1058	1612	1739
80°	884	1527	1567
85°	661	1221	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	3.4
10°-20°	379.4	9.7
20°-30°	565.5	14.5
30°-40°	665.6	17.1
40°-50°	676.4	17.4
50°-60°	608.2	15.6
60°-70°	480.5	12.3
70°-80°	304.8	7.8
80°-90°	84.1	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°	1078.3	27.7
0°-40°	1744.0	44.7
0°-60°	3028.6	77.7
0°-90°	3898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1412	1401	1407	1405	1405	134
15°	1345	1338	1348	1352	1353	379
25°	1217	1215	1230	1237	1242	559
35°	1036	1043	1069	1080	1091	648
45°	833	844	878	904	924	643
55°	620	636	680	724	742	554
65°	407	428	486	540	560	403
75°	204	239	310	337	335	217
85°	43	74	79	73	73	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.1	1411.1	1411.1	1411.1	1411.1
2.5°	1417.6	1407.3	1412.4	1409.9	1404.7
5°	1412.4	1400.8	1407.3	1404.7	1404.7
7.5°	1400.8	1391.7	1396.9	1395.6	1396.9
10°	1386.5	1377.4	1385.2	1385.2	1383.9
12.5°	1367.0	1359.3	1368.3	1368.3	1369.6
15°	1345.0	1338.5	1347.6	1351.5	1352.8
17.5°	1317.8	1311.3	1323.0	1326.8	1330.7
20°	1286.6	1284.0	1295.7	1299.6	1304.8
22.5°	1251.6	1251.6	1263.3	1268.5	1276.3
25°	1216.6	1215.3	1229.6	1237.3	1242.5
27.5°	1175.1	1176.4	1194.5	1202.3	1208.8
30°	1131.0	1133.6	1154.3	1163.4	1172.5
32.5°	1084.3	1089.5	1112.8	1123.2	1132.3
35°	1036.3	1042.8	1068.7	1080.4	1090.8
37.5°	988.3	997.4	1024.6	1036.3	1048.0
40°	937.7	945.5	976.6	990.9	1005.2
42.5°	885.9	896.2	927.4	948.1	965.0
45°	832.7	844.4	878.1	904.0	923.5
47.5°	779.5	795.1	827.5	862.5	879.4
50°	726.3	741.9	778.2	817.1	834.0
52.5°	671.9	687.4	728.9	769.1	787.3
55°	620.0	635.5	679.6	723.7	741.9
57.5°	565.5	582.4	631.6	677.0	695.2
60°	512.3	529.2	582.4	630.3	649.8
62.5°	460.4	478.6	534.4	585.0	604.4
65°	407.3	428.0	486.4	539.6	560.3
67.5°	355.4	378.7	439.7	495.5	517.5
70°	303.5	330.7	395.6	452.7	474.7
72.5°	252.9	282.7	351.5	408.6	420.2
75°	203.6	238.6	310.0	337.2	334.6
77.5°	156.9	195.8	263.3	268.5	276.3
80°	114.1	156.9	197.1	207.5	202.3
82.5°	75.2	118.0	141.4	136.2	134.9
85°	42.8	73.9	79.1	72.6	72.6
87.5°	18.2	29.8	25.9	19.5	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)