

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: P261371

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261371
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-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3876.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

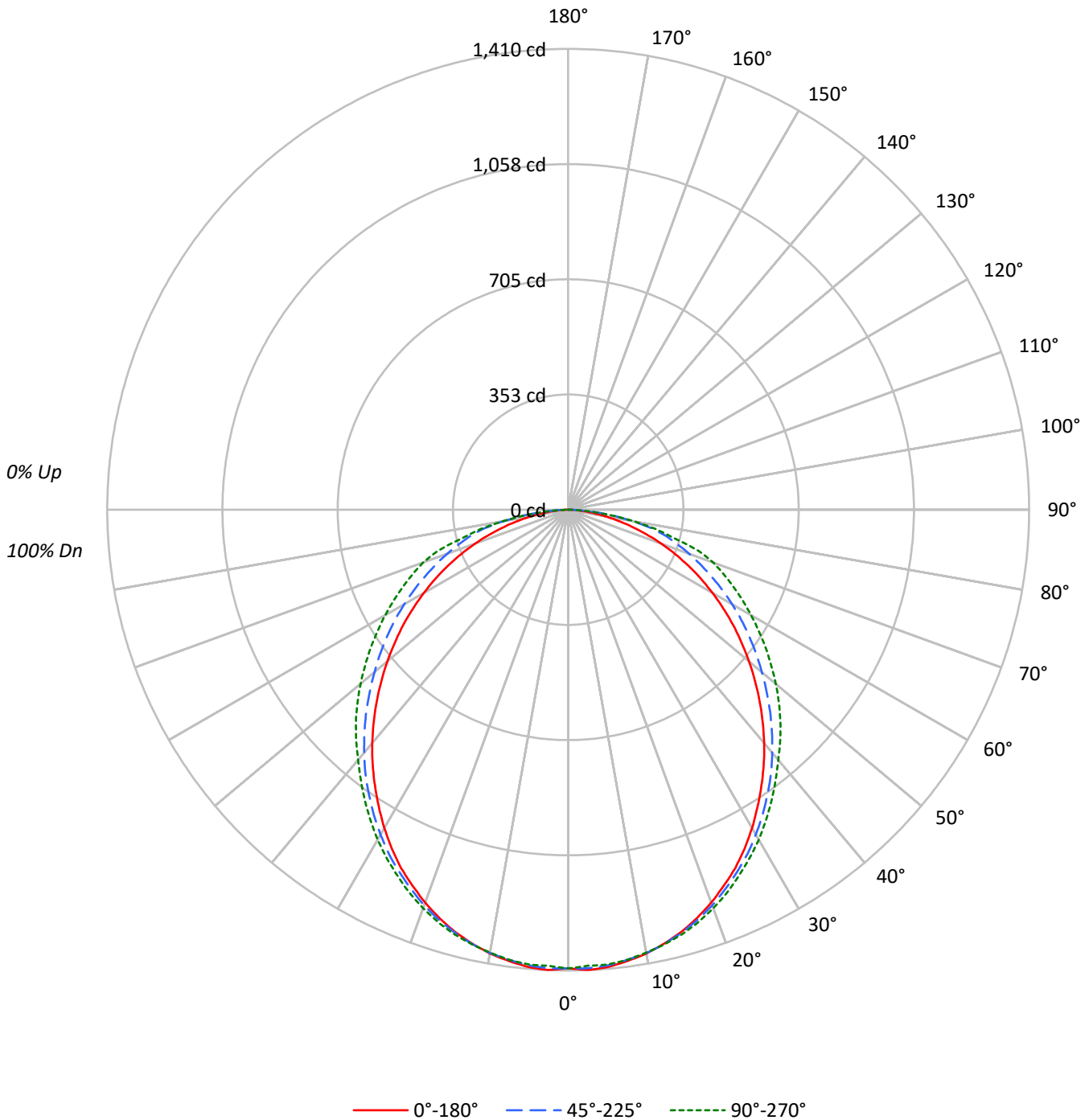
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1888	1888	1888
5°	1897	1890	1886
10°	1884	1882	1880
15°	1863	1867	1874
20°	1832	1845	1858
25°	1796	1815	1834
30°	1747	1783	1811
35°	1693	1746	1781
40°	1638	1706	1756
45°	1576	1661	1747
50°	1512	1620	1736
55°	1446	1585	1730
60°	1371	1558	1739
65°	1289	1540	1774
70°	1187	1548	1857
75°	1053	1602	1730
80°	879	1519	1559
85°	658	1215	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.4
10°-20°	377.3	9.7
20°-30°	562.3	14.5
30°-40°	661.9	17.1
40°-50°	672.6	17.4
50°-60°	604.7	15.6
60°-70°	477.8	12.3
70°-80°	303.1	7.8
80°-90°	83.7	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°	1072.3	27.7
0°-40°	1734.1	44.7
0°-60°	3011.5	77.7
0°-90°	3876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1404	1393	1399	1397	1397	133
15°	1337	1331	1340	1344	1345	377
25°	1210	1208	1223	1230	1236	556
35°	1030	1037	1063	1074	1085	645
45°	828	840	873	899	918	639
55°	616	632	676	720	738	551
65°	405	426	484	536	557	401
75°	202	237	308	335	333	216
85°	43	74	79	72	72	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1409.6	1399.3	1404.5	1401.9	1396.7
5°	1404.5	1392.9	1399.3	1396.7	1396.7
7.5°	1392.9	1383.8	1389.0	1387.7	1389.0
10°	1378.7	1369.7	1377.4	1377.4	1376.1
12.5°	1359.3	1351.6	1360.6	1360.6	1361.9
15°	1337.4	1331.0	1340.0	1343.9	1345.1
17.5°	1310.3	1303.9	1315.5	1319.4	1323.2
20°	1279.4	1276.8	1288.4	1292.3	1297.4
22.5°	1244.6	1244.6	1256.2	1261.3	1269.1
25°	1209.7	1208.4	1222.6	1230.4	1235.5
27.5°	1168.5	1169.7	1187.8	1195.5	1202.0
30°	1124.6	1127.2	1147.8	1156.9	1165.9
32.5°	1078.2	1083.3	1106.6	1116.9	1125.9
35°	1030.5	1036.9	1062.7	1074.3	1084.6
37.5°	982.7	991.8	1018.9	1030.5	1042.1
40°	932.4	940.2	971.1	985.3	999.5
42.5°	880.9	891.2	922.1	942.8	959.5
45°	828.0	839.6	873.1	898.9	918.3
47.5°	775.1	790.6	822.8	857.6	874.4
50°	722.2	737.7	773.8	812.5	829.3
52.5°	668.1	683.5	724.8	764.8	782.8
55°	616.5	631.9	675.8	719.6	737.7
57.5°	562.3	579.1	628.1	673.2	691.3
60°	509.4	526.2	579.1	626.8	646.1
62.5°	457.8	475.9	531.4	581.7	601.0
65°	405.0	425.6	483.6	536.5	557.1
67.5°	353.4	376.6	437.2	492.7	514.6
70°	301.8	328.9	393.4	450.1	472.0
72.5°	251.5	281.2	349.5	406.3	417.9
75°	202.5	237.3	308.2	335.3	332.7
77.5°	156.1	194.7	261.8	267.0	274.7
80°	113.5	156.1	196.0	206.4	201.2
82.5°	74.8	117.4	140.6	135.4	134.1
85°	42.6	73.5	78.7	72.2	72.2
87.5°	18.1	29.7	25.8	19.3	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)