

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: P261145

Luminaire Tested: **24CZ-LD5-40-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261145
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-LD5-40-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4278.0 lumens
Efficiency: N/A
Efficacy: 147.9 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

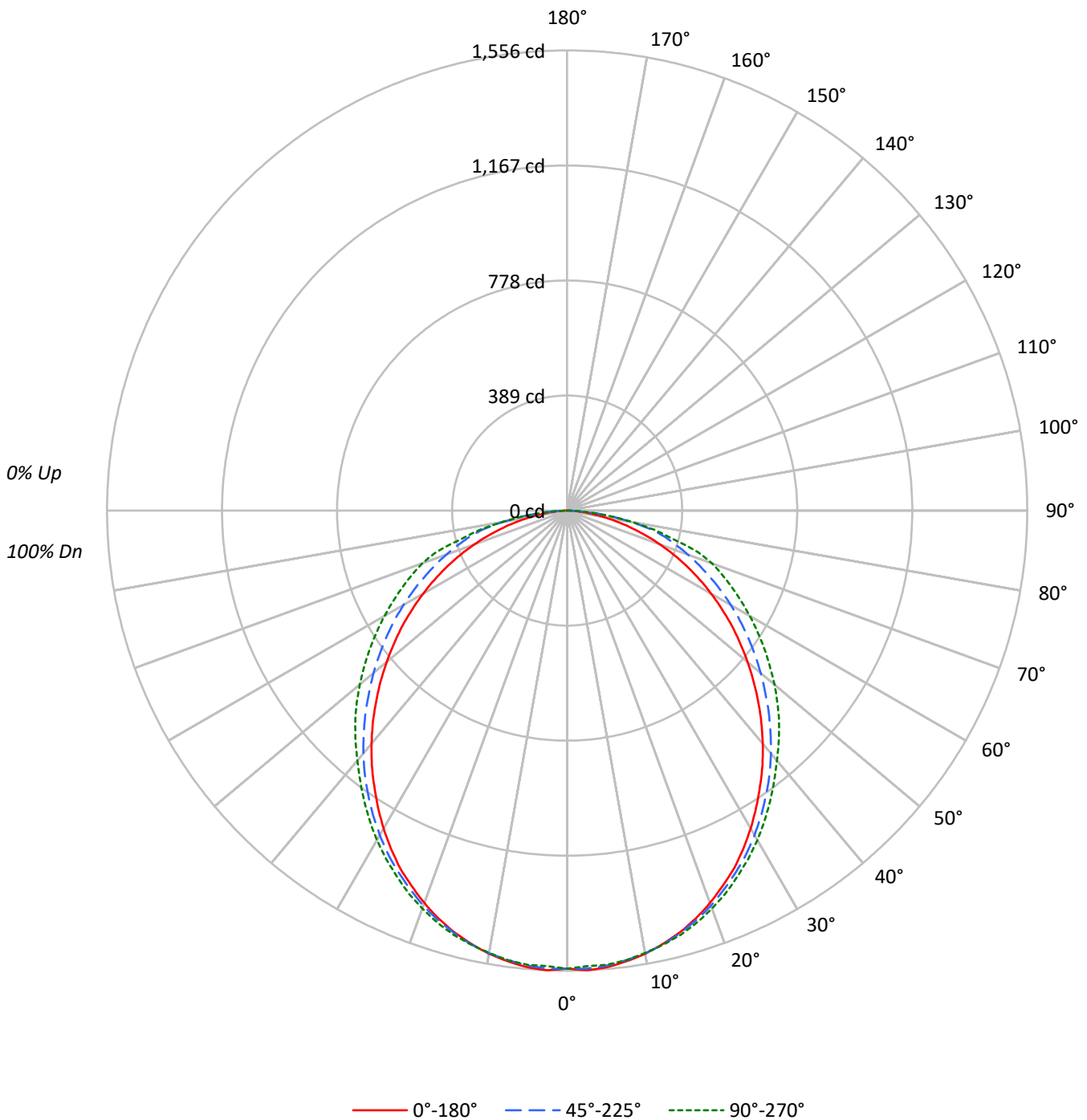
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2084	2084	2084
5°	2094	2086	2082
10°	2079	2077	2075
15°	2056	2060	2068
20°	2022	2036	2050
25°	1982	2003	2025
30°	1928	1968	1999
35°	1868	1927	1966
40°	1808	1883	1938
45°	1739	1834	1928
50°	1668	1788	1916
55°	1596	1750	1910
60°	1513	1720	1919
65°	1423	1699	1958
70°	1310	1708	2050
75°	1162	1769	1909
80°	971	1677	1721
85°	726	1340	1230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.4
10°-20°	416.4	9.7
20°-30°	620.6	14.5
30°-40°	730.5	17.1
40°-50°	742.4	17.4
50°-60°	667.5	15.6
60°-70°	527.3	12.3
70°-80°	334.5	7.8
80°-90°	92.3	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°	1183.5	27.7
0°-40°	1914.0	44.7
0°-60°	3323.8	77.7
0°-90°	4278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1550	1537	1544	1542	1542	147
15°	1476	1469	1479	1483	1485	416
25°	1335	1334	1349	1358	1364	614
35°	1137	1144	1173	1186	1197	712
45°	914	927	964	992	1014	705
55°	680	698	746	794	814	608
65°	447	470	534	592	615	443
75°	224	262	340	370	367	238
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°	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1555.8	1544.4	1550.1	1547.3	1541.6
5°	1550.1	1537.3	1544.4	1541.6	1541.6
7.5°	1537.3	1527.4	1533.1	1531.6	1533.1
10°	1521.7	1511.7	1520.2	1520.2	1518.8
12.5°	1500.3	1491.8	1501.7	1501.7	1503.2
15°	1476.1	1469.0	1479.0	1483.2	1484.7
17.5°	1446.2	1439.1	1451.9	1456.2	1460.5
20°	1412.1	1409.2	1422.0	1426.3	1432.0
22.5°	1373.6	1373.6	1386.4	1392.1	1400.7
25°	1335.2	1333.8	1349.4	1358.0	1363.7
27.5°	1289.6	1291.1	1311.0	1319.5	1326.7
30°	1241.2	1244.1	1266.9	1276.8	1286.8
32.5°	1190.0	1195.7	1221.3	1232.7	1242.7
35°	1137.3	1144.5	1172.9	1185.7	1197.1
37.5°	1084.7	1094.6	1124.5	1137.3	1150.1
40°	1029.2	1037.7	1071.9	1087.5	1103.2
42.5°	972.2	983.6	1017.8	1040.5	1059.0
45°	913.9	926.7	963.7	992.1	1013.5
47.5°	855.5	872.6	908.2	946.6	965.1
50°	797.1	814.2	854.1	896.8	915.3
52.5°	737.3	754.4	800.0	844.1	864.0
55°	680.4	697.5	745.9	794.3	814.2
57.5°	620.6	639.1	693.2	743.0	763.0
60°	562.3	580.8	639.1	691.8	713.1
62.5°	505.3	525.3	586.5	642.0	663.3
65°	447.0	469.7	533.8	592.2	614.9
67.5°	390.0	415.6	482.5	543.8	568.0
70°	333.1	363.0	434.2	496.8	521.0
72.5°	277.6	310.3	385.8	448.4	461.2
75°	223.5	261.9	340.2	370.1	367.3
77.5°	172.2	214.9	289.0	294.7	303.2
80°	125.3	172.2	216.4	227.8	222.1
82.5°	82.6	129.5	155.2	149.5	148.0
85°	47.0	81.1	86.8	79.7	79.7
87.5°	19.9	32.7	28.5	21.4	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)