

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: P261226

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261226
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-LD5-35SE-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3735.0 lumens
Efficiency: N/A
Efficacy: 139.9 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

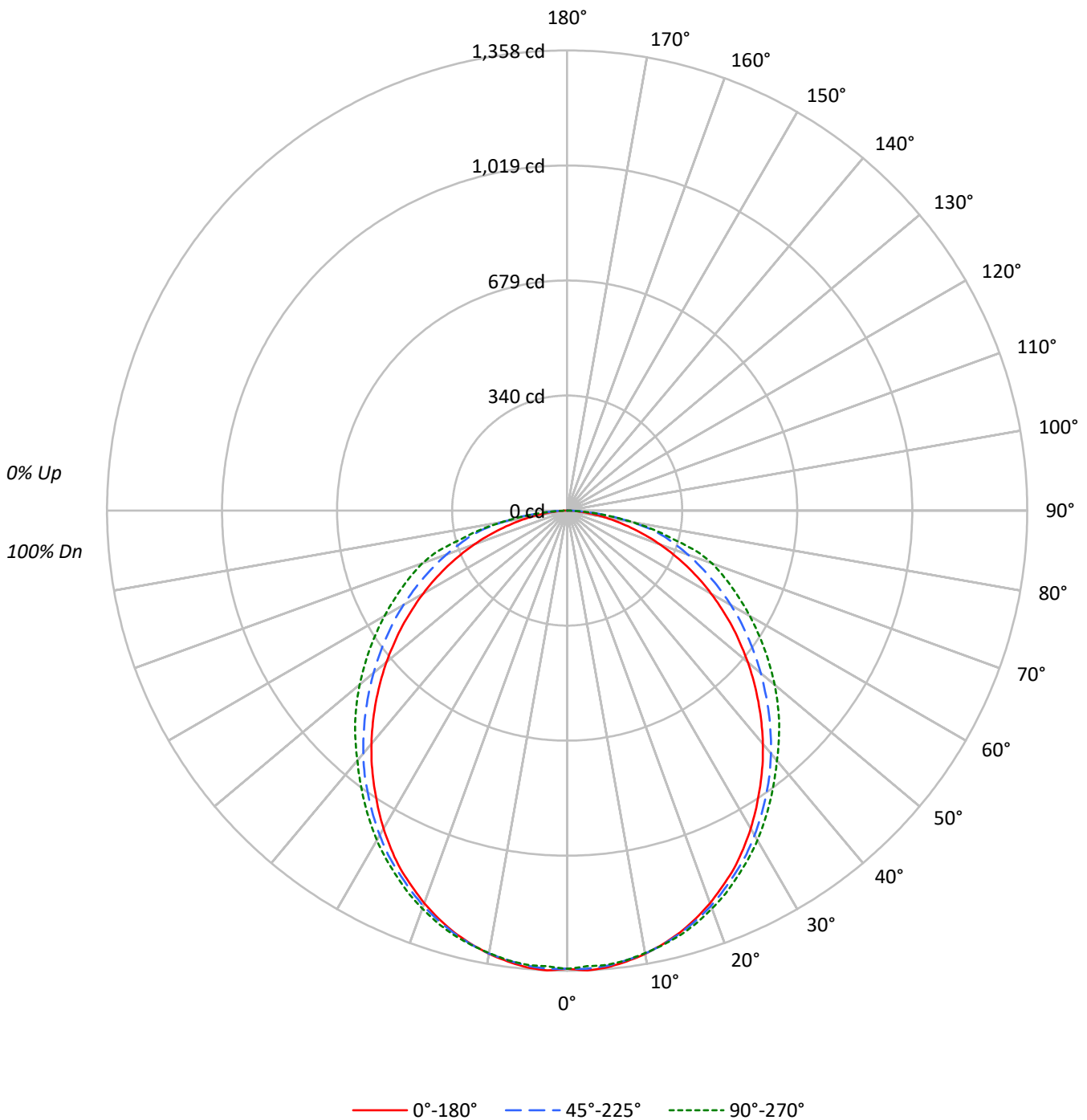
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1819	1819	1819
5°	1828	1821	1818
10°	1815	1813	1812
15°	1795	1799	1806
20°	1765	1778	1790
25°	1731	1749	1768
30°	1684	1718	1746
35°	1631	1682	1717
40°	1578	1644	1692
45°	1518	1601	1684
50°	1457	1561	1673
55°	1393	1528	1668
60°	1321	1502	1675
65°	1242	1484	1709
70°	1144	1491	1790
75°	1014	1544	1667
80°	848	1464	1502
85°	633	1170	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.4
10°-20°	363.6	9.7
20°-30°	541.8	14.5
30°-40°	637.8	17.1
40°-50°	648.2	17.4
50°-60°	582.7	15.6
60°-70°	460.4	12.3
70°-80°	292.1	7.8
80°-90°	80.6	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°	1033.2	27.7
0°-40°	1671.1	44.7
0°-60°	2902.0	77.7
0°-90°	3735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1353	1342	1348	1346	1346	128
15°	1289	1282	1291	1295	1296	363
25°	1166	1164	1178	1186	1191	536
35°	993	999	1024	1035	1045	621
45°	798	809	841	866	885	616
55°	594	609	651	694	711	530
65°	390	410	466	517	537	387
75°	195	229	297	323	321	208
85°	41	71	76	70	70	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.1	1352.1	1352.1	1352.1	1352.1
2.5°	1358.4	1348.4	1353.4	1350.9	1345.9
5°	1353.4	1342.2	1348.4	1345.9	1345.9
7.5°	1342.2	1333.5	1338.5	1337.2	1338.5
10°	1328.5	1319.8	1327.3	1327.3	1326.0
12.5°	1309.9	1302.4	1311.1	1311.1	1312.4
15°	1288.8	1282.5	1291.2	1295.0	1296.2
17.5°	1262.7	1256.4	1267.6	1271.4	1275.1
20°	1232.8	1230.3	1241.5	1245.3	1250.2
22.5°	1199.3	1199.3	1210.5	1215.4	1222.9
25°	1165.7	1164.5	1178.2	1185.6	1190.6
27.5°	1126.0	1127.2	1144.6	1152.1	1158.3
30°	1083.7	1086.2	1106.1	1114.8	1123.5
32.5°	1039.0	1043.9	1066.3	1076.2	1084.9
35°	993.0	999.2	1024.0	1035.2	1045.2
37.5°	947.0	955.7	981.8	993.0	1004.2
40°	898.5	906.0	935.8	949.5	963.2
42.5°	848.8	858.8	888.6	908.5	924.6
45°	797.9	809.0	841.4	866.2	884.9
47.5°	746.9	761.8	792.9	826.4	842.6
50°	696.0	710.9	745.7	782.9	799.1
52.5°	643.8	658.7	698.4	737.0	754.4
55°	594.0	609.0	651.2	693.5	710.9
57.5°	541.8	558.0	605.2	648.7	666.1
60°	490.9	507.1	558.0	604.0	622.6
62.5°	441.2	458.6	512.0	560.5	579.1
65°	390.2	410.1	466.0	517.0	536.9
67.5°	340.5	362.9	421.3	474.7	495.9
70°	290.8	316.9	379.0	433.7	454.9
72.5°	242.3	270.9	336.8	391.5	402.7
75°	195.1	228.7	297.0	323.1	320.6
77.5°	150.4	187.7	252.3	257.3	264.7
80°	109.4	150.4	188.9	198.8	193.9
82.5°	72.1	113.1	135.5	130.5	129.2
85°	41.0	70.8	75.8	69.6	69.6
87.5°	17.4	28.6	24.9	18.6	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)