

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: P261279

Luminaire Tested: **24CZ-LD5-40-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261279
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3764.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

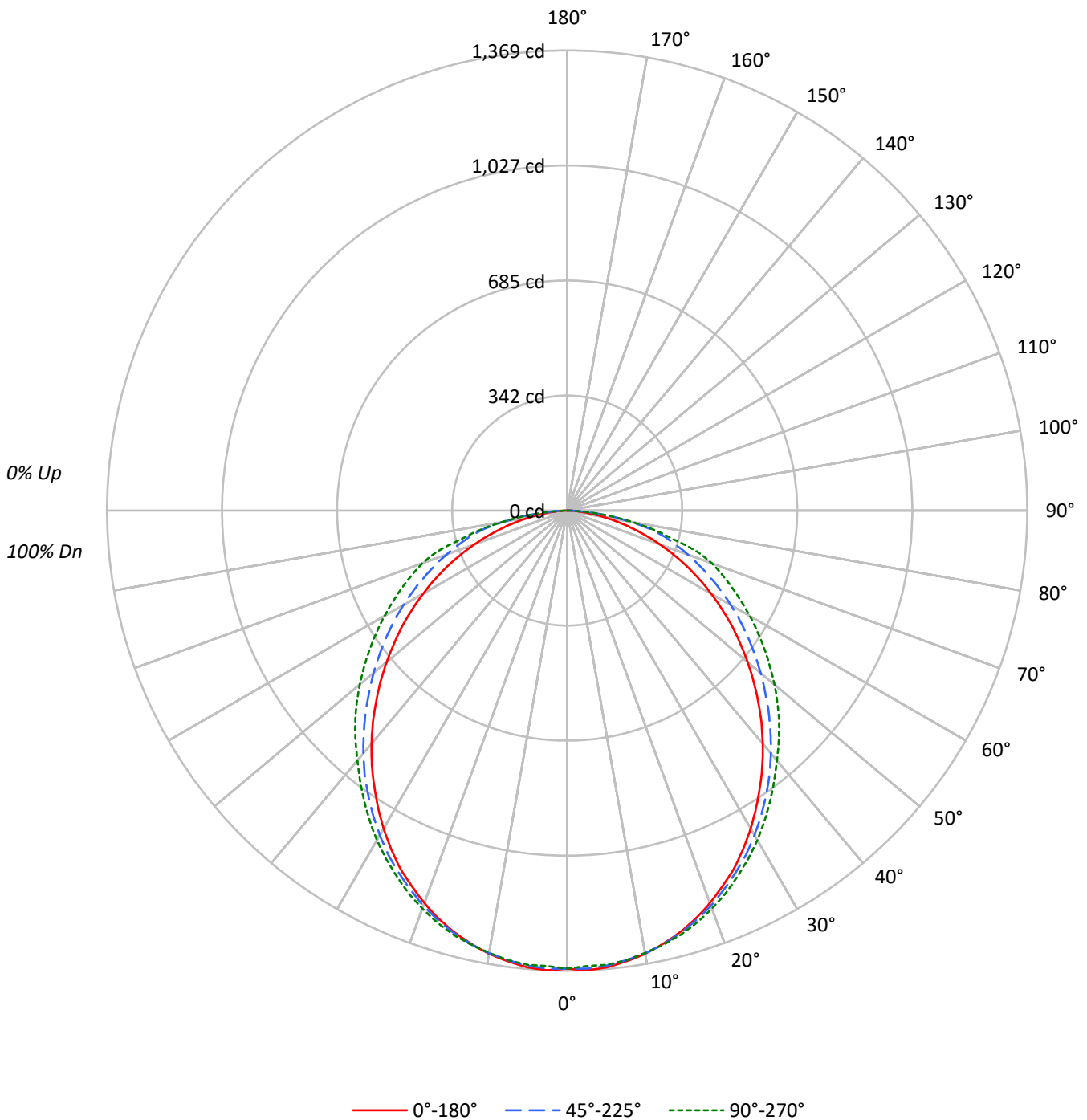
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1833	1833	1833
5°	1842	1835	1832
10°	1829	1827	1826
15°	1809	1813	1820
20°	1779	1792	1804
25°	1744	1763	1781
30°	1697	1732	1759
35°	1644	1695	1730
40°	1590	1656	1705
45°	1530	1613	1697
50°	1468	1573	1686
55°	1404	1540	1681
60°	1331	1513	1689
65°	1252	1495	1722
70°	1153	1503	1803
75°	1022	1556	1680
80°	854	1475	1514
85°	638	1179	1082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.4
10°-20°	366.4	9.7
20°-30°	546.0	14.5
30°-40°	642.8	17.1
40°-50°	653.2	17.4
50°-60°	587.3	15.6
60°-70°	463.9	12.3
70°-80°	294.3	7.8
80°-90°	81.2	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°	1041.3	27.7
0°-40°	1684.0	44.7
0°-60°	2924.5	77.7
0°-90°	3764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1364	1353	1359	1356	1356	129
15°	1299	1292	1301	1305	1306	366
25°	1175	1174	1187	1195	1200	540
35°	1001	1007	1032	1043	1053	626
45°	804	815	848	873	892	620
55°	599	614	656	699	716	535
65°	393	413	470	521	541	390
75°	197	230	299	326	323	209
85°	41	71	76	70	70	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.6	1362.6	1362.6	1362.6	1362.6
2.5°	1368.9	1358.9	1363.9	1361.4	1356.4
5°	1363.9	1352.6	1358.9	1356.4	1356.4
7.5°	1352.6	1343.9	1348.9	1347.6	1348.9
10°	1338.8	1330.1	1337.6	1337.6	1336.3
12.5°	1320.1	1312.5	1321.3	1321.3	1322.6
15°	1298.8	1292.5	1301.3	1305.0	1306.3
17.5°	1272.5	1266.2	1277.5	1281.2	1285.0
20°	1242.4	1239.9	1251.2	1254.9	1259.9
22.5°	1208.6	1208.6	1219.9	1224.9	1232.4
25°	1174.8	1173.5	1187.3	1194.8	1199.8
27.5°	1134.7	1135.9	1153.5	1161.0	1167.3
30°	1092.1	1094.6	1114.7	1123.4	1132.2
32.5°	1047.0	1052.0	1074.6	1084.6	1093.4
35°	1000.7	1006.9	1032.0	1043.3	1053.3
37.5°	954.3	963.1	989.4	1000.7	1012.0
40°	905.5	913.0	943.1	956.9	970.6
42.5°	855.4	865.4	895.5	915.5	931.8
45°	804.1	815.3	847.9	872.9	891.7
47.5°	752.7	767.7	799.0	832.9	849.1
50°	701.4	716.4	751.5	789.0	805.3
52.5°	648.8	663.8	703.9	742.7	760.2
55°	598.7	613.7	656.3	698.9	716.4
57.5°	546.1	562.3	609.9	653.8	671.3
60°	494.7	511.0	562.3	608.7	627.5
62.5°	444.6	462.1	516.0	564.8	583.6
65°	393.3	413.3	469.7	521.0	541.0
67.5°	343.2	365.7	424.6	478.4	499.7
70°	293.1	319.4	382.0	437.1	458.4
72.5°	244.2	273.0	339.4	394.5	405.8
75°	196.6	230.4	299.3	325.6	323.1
77.5°	151.5	189.1	254.2	259.3	266.8
80°	110.2	151.5	190.4	200.4	195.4
82.5°	72.6	114.0	136.5	131.5	130.3
85°	41.3	71.4	76.4	70.1	70.1
87.5°	17.5	28.8	25.0	18.8	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)