

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: P261232

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261232
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4033.0 lumens
Efficiency: N/A
Efficacy: 131.8 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

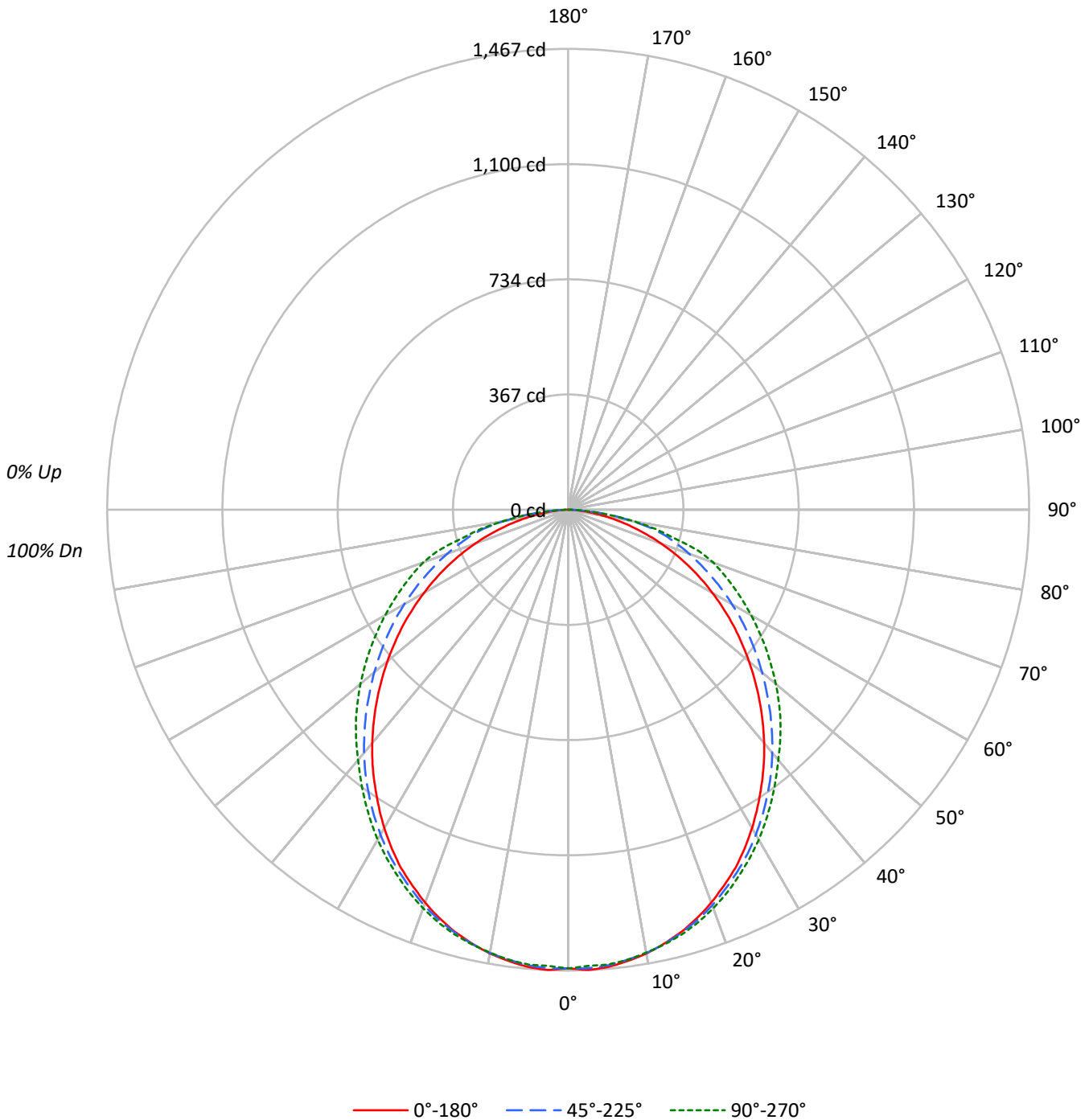
Input Watts (W): 30.597
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1964	1964	1964
5°	1974	1967	1963
10°	1960	1958	1956
15°	1938	1942	1950
20°	1906	1920	1933
25°	1869	1889	1909
30°	1818	1856	1885
35°	1761	1816	1854
40°	1704	1775	1827
45°	1639	1729	1818
50°	1573	1685	1806
55°	1505	1650	1801
60°	1426	1621	1809
65°	1342	1602	1846
70°	1235	1610	1932
75°	1095	1667	1800
80°	915	1581	1622
85°	684	1264	1159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	3.4
10°-20°	392.6	9.7
20°-30°	585.1	14.5
30°-40°	688.7	17.1
40°-50°	699.9	17.4
50°-60°	629.2	15.6
60°-70°	497.1	12.3
70°-80°	315.4	7.8
80°-90°	87.0	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°	1115.7	27.7
0°-40°	1804.4	44.7
0°-60°	3133.5	77.7
0°-90°	4033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1461	1449	1456	1453	1453	139
15°	1392	1385	1394	1398	1400	392
25°	1259	1257	1272	1280	1286	579
35°	1072	1079	1106	1118	1129	671
45°	862	874	908	935	956	665
55°	641	658	703	749	768	573
65°	421	443	503	558	580	417
75°	211	247	321	349	346	224
85°	44	76	82	75	75	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1460.0	1460.0	1460.0	1460.0	1460.0
2.5°	1466.7	1456.0	1461.4	1458.7	1453.3
5°	1461.4	1449.3	1456.0	1453.3	1453.3
7.5°	1449.3	1439.9	1445.3	1443.9	1445.3
10°	1434.5	1425.1	1433.2	1433.2	1431.8
12.5°	1414.4	1406.3	1415.7	1415.7	1417.1
15°	1391.6	1384.9	1394.3	1398.3	1399.6
17.5°	1363.4	1356.7	1368.8	1372.8	1376.8
20°	1331.2	1328.5	1340.6	1344.6	1350.0
22.5°	1295.0	1295.0	1307.0	1312.4	1320.5
25°	1258.7	1257.4	1272.1	1280.2	1285.6
27.5°	1215.8	1217.1	1235.9	1244.0	1250.7
30°	1170.2	1172.8	1194.3	1203.7	1213.1
32.5°	1121.9	1127.2	1151.4	1162.1	1171.5
35°	1072.2	1078.9	1105.8	1117.8	1128.6
37.5°	1022.6	1031.9	1060.1	1072.2	1084.3
40°	970.2	978.3	1010.5	1025.2	1040.0
42.5°	916.5	927.3	959.5	981.0	998.4
45°	861.5	873.6	908.5	935.3	955.5
47.5°	806.5	822.6	856.2	892.4	909.8
50°	751.5	767.6	805.2	845.4	862.9
52.5°	695.1	711.2	754.2	795.8	814.6
55°	641.4	657.5	703.2	748.8	767.6
57.5°	585.1	602.5	653.5	700.5	719.3
60°	530.1	547.5	602.5	652.2	672.3
62.5°	476.4	495.2	552.9	605.2	625.3
65°	421.4	442.8	503.2	558.2	579.7
67.5°	367.7	391.8	454.9	512.6	535.4
70°	314.0	342.2	409.3	468.3	491.1
72.5°	261.7	292.5	363.7	422.7	434.8
75°	210.7	246.9	320.7	348.9	346.2
77.5°	162.4	202.6	272.4	277.8	285.8
80°	118.1	162.4	204.0	214.7	209.3
82.5°	77.8	122.1	146.3	140.9	139.6
85°	44.3	76.5	81.9	75.1	75.1
87.5°	18.8	30.9	26.8	20.1	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)