

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: P261237

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261237
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4304.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

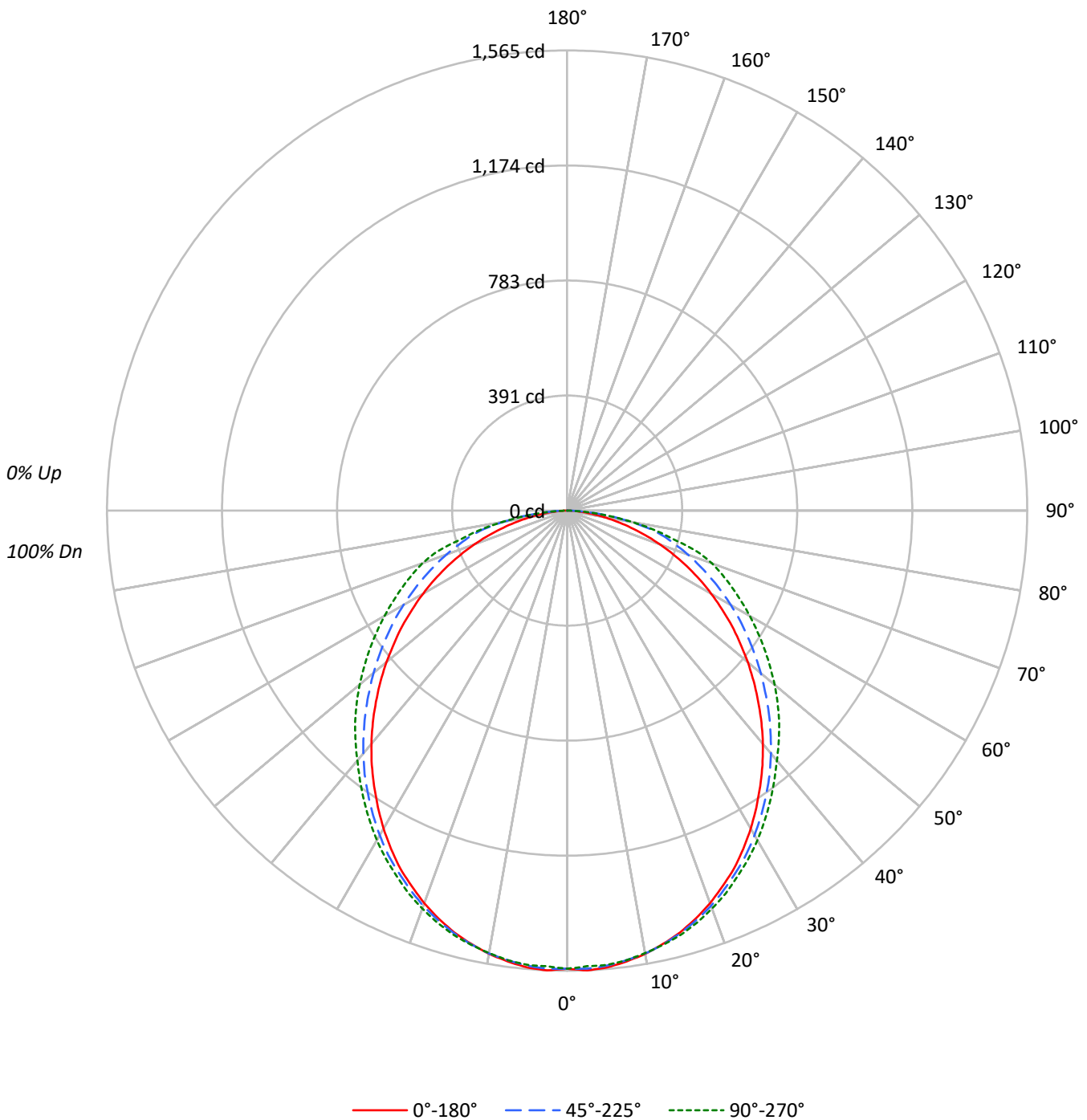
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2096	2096	2096
5°	2106	2099	2095
10°	2092	2090	2088
15°	2069	2073	2081
20°	2034	2049	2063
25°	1994	2015	2037
30°	1940	1980	2011
35°	1879	1938	1978
40°	1819	1894	1949
45°	1749	1845	1940
50°	1679	1799	1927
55°	1606	1760	1922
60°	1522	1730	1931
65°	1432	1710	1970
70°	1318	1718	2062
75°	1169	1779	1921
80°	976	1687	1731
85°	730	1349	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.4
10°-20°	419.0	9.7
20°-30°	624.4	14.5
30°-40°	735.0	17.1
40°-50°	746.9	17.4
50°-60°	671.5	15.6
60°-70°	530.5	12.3
70°-80°	336.5	7.8
80°-90°	92.9	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°	1190.7	27.7
0°-40°	1925.6	44.7
0°-60°	3344.0	77.7
0°-90°	4304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1560	1547	1554	1551	1551	148
15°	1485	1478	1488	1492	1494	418
25°	1343	1342	1358	1366	1372	618
35°	1144	1151	1180	1193	1204	716
45°	919	932	970	998	1020	709
55°	684	702	750	799	819	611
65°	450	473	537	596	619	445
75°	225	264	342	372	370	239
85°	47	82	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°	1558.1	1558.1	1558.1	1558.1	1558.1
2.5°	1565.3	1553.8	1559.6	1556.7	1551.0
5°	1559.6	1546.7	1553.8	1551.0	1551.0
7.5°	1546.7	1536.6	1542.4	1540.9	1542.4
10°	1530.9	1520.9	1529.5	1529.5	1528.1
12.5°	1509.4	1500.8	1510.9	1510.9	1512.3
15°	1485.1	1477.9	1488.0	1492.3	1493.7
17.5°	1455.0	1447.9	1460.7	1465.0	1469.3
20°	1420.6	1417.8	1430.7	1435.0	1440.7
22.5°	1382.0	1382.0	1394.9	1400.6	1409.2
25°	1343.3	1341.9	1357.6	1366.2	1372.0
27.5°	1297.5	1298.9	1319.0	1327.6	1334.7
30°	1248.8	1251.7	1274.6	1284.6	1294.6
32.5°	1197.2	1203.0	1228.7	1240.2	1250.2
35°	1144.2	1151.4	1180.1	1192.9	1204.4
37.5°	1091.3	1101.3	1131.4	1144.2	1157.1
40°	1035.4	1044.0	1078.4	1094.1	1109.9
42.5°	978.1	989.6	1024.0	1046.9	1065.5
45°	919.4	932.3	969.5	998.2	1019.7
47.5°	860.7	877.9	913.7	952.3	971.0
50°	802.0	819.2	859.3	902.2	920.8
52.5°	741.8	759.0	804.8	849.2	869.3
55°	684.5	701.7	750.4	799.1	819.2
57.5°	624.4	643.0	697.4	747.6	767.6
60°	565.7	584.3	643.0	696.0	717.5
62.5°	508.4	528.4	590.0	645.9	667.4
65°	449.7	472.6	537.0	595.8	618.7
67.5°	392.4	418.2	485.5	547.1	571.4
70°	335.1	365.2	436.8	499.8	524.1
72.5°	279.3	312.2	388.1	451.1	464.0
75°	224.8	263.5	342.3	372.3	369.5
77.5°	173.3	216.2	290.7	296.4	305.0
80°	126.0	173.3	217.7	229.1	223.4
82.5°	83.1	130.3	156.1	150.4	148.9
85°	47.3	81.6	87.4	80.2	80.2
87.5°	20.0	32.9	28.6	21.5	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)