

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: P#

Luminaire Tested: **24CZ-LD5-40-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4461.1 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

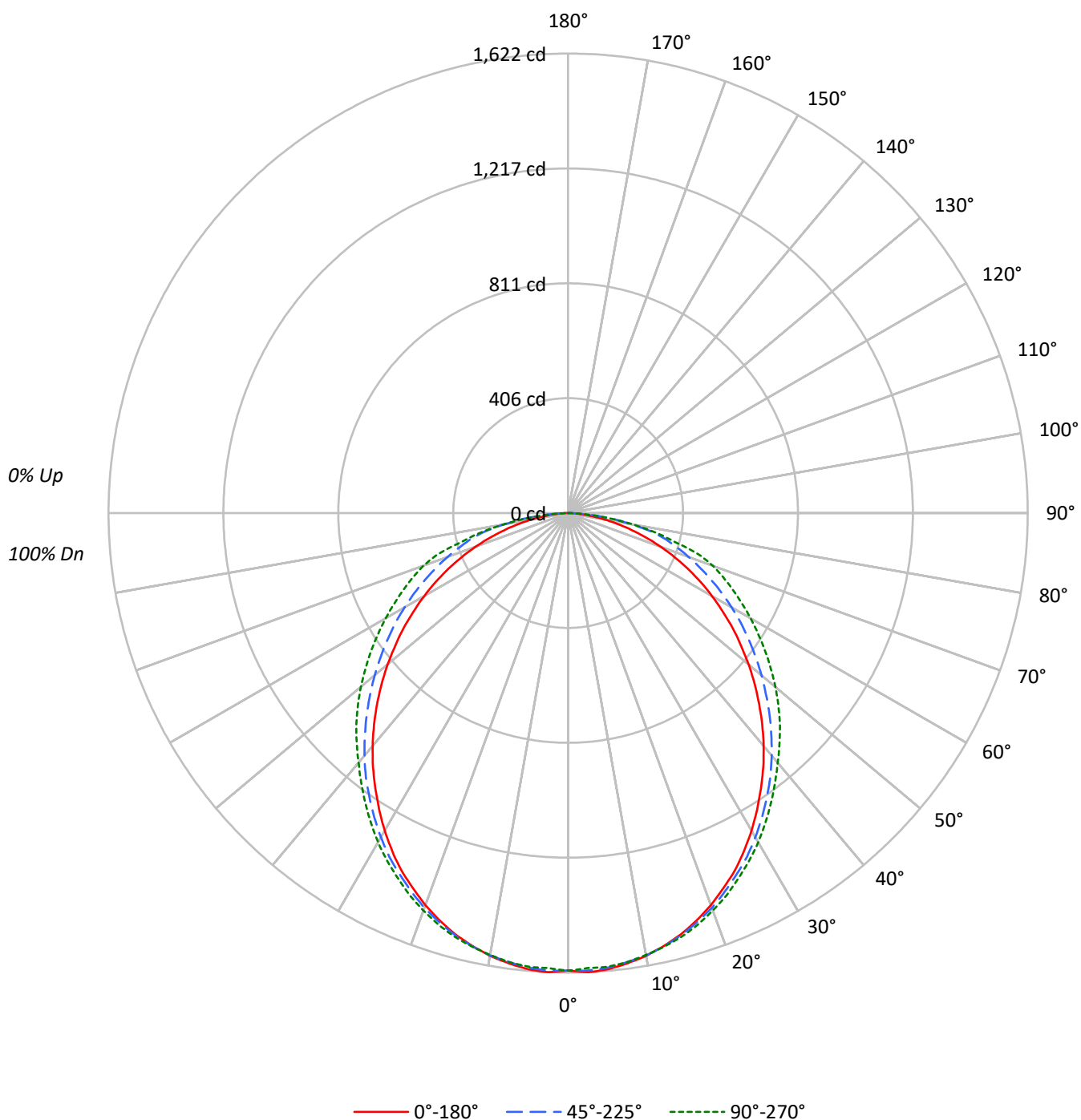
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-40-S-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-40-S-UNV-L850-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	2173	2173	2173
5°	2179	2165	2162
10°	2158	2146	2145
15°	2130	2118	2128
20°	2089	2083	2100
25°	2043	2039	2063
30°	1982	1992	2026
35°	1915	1937	1981
40°	1846	1880	1939
45°	1769	1816	1915
50°	1690	1753	1886
55°	1607	1696	1859
60°	1512	1643	1842
65°	1408	1591	1844
70°	1278	1554	1879
75°	1108	1540	1678
80°	886	1344	1398
85°	588	870	816



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-40-S-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	3.4
10°-20°	434.3	9.7
20°-30°	647.2	14.5
30°-40°	761.8	17.1
40°-50°	774.2	17.4
50°-60°	696.0	15.6
60°-70°	549.9	12.3
70°-80°	348.8	7.8
80°-90°	96.3	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°	1234.1	27.7
0°-40°	1995.9	44.7
0°-60°	3466.1	77.7
0°-90°	4461.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4461.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1616	1603	1611	1608	1608	153
15°	1539	1532	1542	1547	1548	434
25°	1392	1391	1407	1416	1422	640
35°	1186	1193	1223	1236	1248	742
45°	953	966	1005	1035	1057	735
55°	710	727	778	828	849	634
65°	466	490	557	618	641	462
75°	233	273	355	386	383	248
85°	49	85	90	83	83	60
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-40-S-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.0	1615.0	1615.0	1615.0	1615.0
2.5°	1622.4	1610.6	1616.5	1613.5	1607.6
5°	1616.5	1603.1	1610.6	1607.6	1607.6
7.5°	1603.1	1592.7	1598.7	1597.2	1598.7
10°	1586.8	1576.4	1585.3	1585.3	1583.8
12.5°	1564.5	1555.6	1566.0	1566.0	1567.5
15°	1539.3	1531.9	1542.3	1546.7	1548.2
17.5°	1508.1	1500.7	1514.1	1518.5	1523.0
20°	1472.5	1469.5	1482.9	1487.4	1493.3
22.5°	1432.4	1432.4	1445.8	1451.7	1460.6
25°	1392.4	1390.9	1407.2	1416.1	1422.0
27.5°	1344.9	1346.3	1367.1	1376.0	1383.4
30°	1294.4	1297.4	1321.1	1331.5	1341.9
32.5°	1240.9	1246.9	1273.6	1285.5	1295.9
35°	1186.0	1193.4	1223.1	1236.5	1248.4
37.5°	1131.1	1141.5	1172.7	1186.0	1199.4
40°	1073.2	1082.1	1117.7	1134.1	1150.4
42.5°	1013.8	1025.7	1061.3	1085.1	1104.4
45°	953.0	966.3	1004.9	1034.6	1056.9
47.5°	892.1	909.9	947.0	987.1	1006.4
50°	831.3	849.1	890.6	935.2	954.5
52.5°	768.9	786.7	834.2	880.2	901.0
55°	709.5	727.3	777.8	828.3	849.1
57.5°	647.2	666.5	722.9	774.8	795.6
60°	586.3	605.6	666.5	721.4	743.7
62.5°	527.0	547.7	611.6	669.5	691.7
65°	466.1	489.8	556.6	617.5	641.3
67.5°	406.7	433.4	503.2	567.0	592.3
70°	347.3	378.5	452.7	518.1	543.3
72.5°	289.5	323.6	402.3	467.6	480.9
75°	233.0	273.1	354.8	385.9	383.0
77.5°	179.6	224.1	301.3	307.3	316.2
80°	130.6	179.6	225.6	237.5	231.6
82.5°	86.1	135.1	161.8	155.9	154.4
85°	49.0	84.6	90.5	83.1	83.1
87.5°	20.8	34.1	29.7	22.3	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)