

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-LD5-40SE-UNV-L840-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 (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4099.4 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

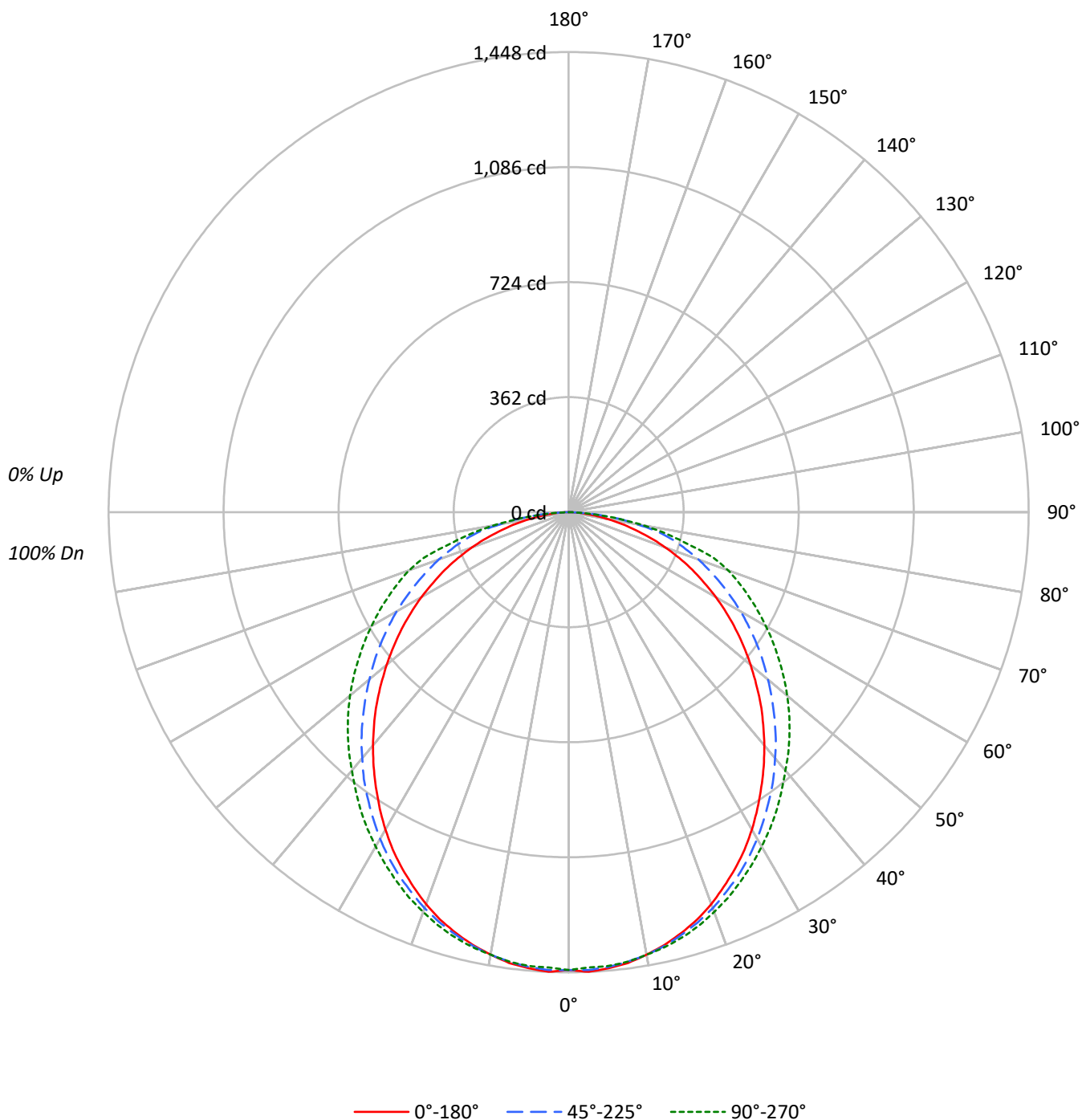
Input Watts (W): 32.55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68		
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26		
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1938	1938	1938
5°	1941	1931	1928
10°	1924	1914	1915
15°	1897	1890	1903
20°	1862	1863	1883
25°	1817	1828	1859
30°	1766	1789	1834
35°	1706	1745	1812
40°	1648	1700	1789
45°	1587	1656	1782
50°	1519	1612	1774
55°	1453	1575	1768
60°	1381	1540	1775
65°	1298	1507	1797
70°	1191	1489	1847
75°	1041	1483	1699
80°	852	1304	1440
85°	586	845	822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	3.3
10°-20°	387.7	9.5
20°-30°	579.6	14.1
30°-40°	687.3	16.8
40°-50°	706.8	17.2
50°-60°	646.5	15.8
60°-70°	521.4	12.7
70°-80°	338.5	8.3
80°-90°	95.3	2.3
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°	1103.6	26.9
0°-40°	1790.9	43.7
0°-60°	3144.2	76.7
0°-90°	4099.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1441	1431	1436	1434	1434	137
15°	1371	1364	1376	1382	1385	386
25°	1238	1238	1262	1272	1282	570
35°	1057	1067	1102	1124	1142	661
45°	855	870	916	958	983	659
55°	642	662	722	780	807	574
65°	430	455	527	596	625	425
75°	219	259	342	384	388	233
85°	49	81	88	86	84	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.6	1440.6	1440.6	1440.6	1440.6
2.5°	1447.5	1436.4	1442.0	1439.2	1433.6
5°	1440.6	1430.8	1436.4	1433.6	1433.6
7.5°	1430.8	1421.0	1426.6	1426.6	1426.6
10°	1414.1	1405.7	1414.1	1414.1	1414.1
12.5°	1394.5	1387.6	1397.3	1398.7	1401.5
15°	1370.8	1363.9	1376.4	1382.0	1384.8
17.5°	1344.3	1338.8	1352.7	1359.7	1363.9
20°	1312.3	1308.1	1326.2	1333.2	1338.8
22.5°	1276.0	1276.0	1294.1	1302.5	1312.3
25°	1238.4	1238.4	1262.1	1271.8	1281.6
27.5°	1197.9	1199.3	1225.8	1239.7	1249.5
30°	1153.3	1158.9	1186.8	1203.5	1214.6
32.5°	1105.9	1112.8	1144.9	1165.8	1179.8
35°	1057.1	1066.8	1101.7	1124.0	1142.1
37.5°	1008.3	1020.8	1058.5	1083.6	1101.7
40°	958.1	972.0	1011.0	1040.3	1061.2
42.5°	906.5	921.8	965.0	998.5	1023.6
45°	854.9	870.2	916.2	958.1	983.2
47.5°	800.5	818.6	867.4	916.2	941.3
50°	747.5	767.0	818.6	871.6	898.1
52.5°	694.5	716.8	771.2	827.0	853.5
55°	641.5	662.4	722.4	779.5	807.4
57.5°	588.5	610.8	673.6	733.5	762.8
60°	535.5	559.2	624.8	687.5	716.8
62.5°	481.1	506.2	575.9	641.5	670.8
65°	429.5	454.6	527.1	595.5	624.8
67.5°	376.5	404.4	479.7	549.4	580.1
70°	323.5	354.2	433.7	503.4	534.1
72.5°	270.5	305.4	386.3	456.0	478.3
75°	218.9	259.4	341.7	383.5	387.7
77.5°	171.5	213.4	291.5	308.2	316.6
80°	125.5	171.5	218.9	239.9	238.5
82.5°	83.7	131.1	157.6	160.4	157.6
85°	48.8	80.9	87.9	86.5	83.7
87.5°	20.9	32.1	27.9	23.7	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)