

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-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 (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

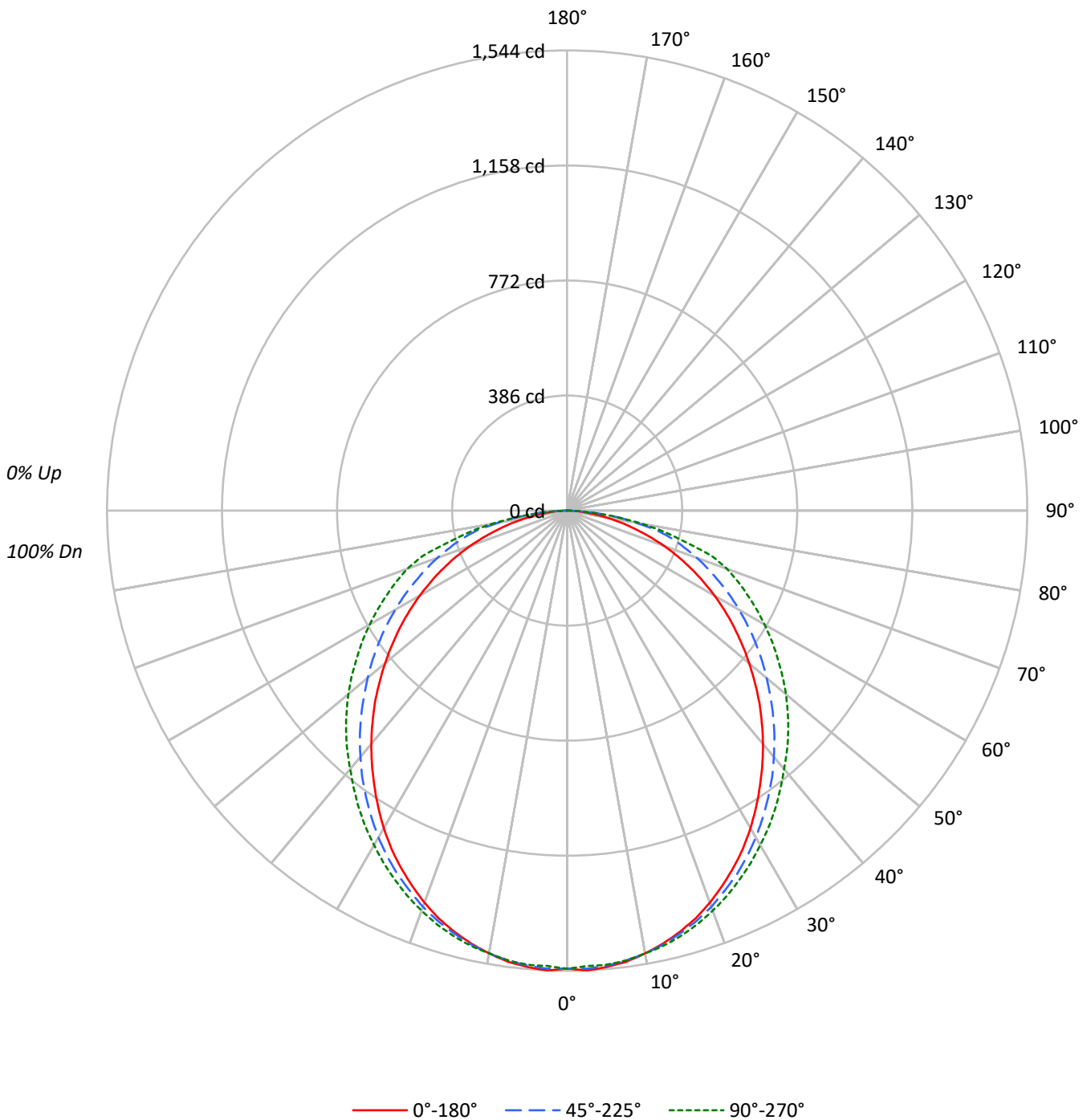
Lumens per Lamp: N/A
Luminaire Lumens: 4373.6 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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



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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	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°	2068	2068	2068
5°	2071	2060	2057
10°	2052	2042	2043
15°	2024	2017	2031
20°	1987	1988	2009
25°	1939	1951	1984
30°	1884	1909	1957
35°	1821	1862	1934
40°	1758	1814	1909
45°	1693	1766	1901
50°	1621	1720	1893
55°	1550	1681	1886
60°	1474	1643	1894
65°	1385	1608	1917
70°	1271	1589	1971
75°	1111	1582	1812
80°	909	1392	1536
85°	626	901	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	3.3
10°-20°	413.7	9.5
20°-30°	618.4	14.1
30°-40°	733.3	16.8
40°-50°	754.1	17.2
50°-60°	689.8	15.8
60°-70°	556.3	12.7
70°-80°	361.2	8.3
80°-90°	101.6	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°	1177.4	26.9
0°-40°	1910.7	43.7
0°-60°	3354.5	76.7
0°-90°	4373.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4373.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1537	1526	1532	1530	1530	146
15°	1463	1455	1468	1474	1477	412
25°	1321	1321	1346	1357	1367	608
35°	1128	1138	1175	1199	1218	706
45°	912	928	978	1022	1049	703
55°	684	707	771	832	862	612
65°	458	485	562	635	667	453
75°	234	277	364	409	414	249
85°	52	86	94	92	89	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.9	1536.9	1536.9	1536.9	1536.9
2.5°	1544.4	1532.5	1538.4	1535.5	1529.5
5°	1536.9	1526.5	1532.5	1529.5	1529.5
7.5°	1526.5	1516.1	1522.1	1522.1	1522.1
10°	1508.7	1499.7	1508.7	1508.7	1508.7
12.5°	1487.8	1480.4	1490.8	1492.3	1495.3
15°	1462.6	1455.1	1468.5	1474.5	1477.4
17.5°	1434.3	1428.3	1443.2	1450.6	1455.1
20°	1400.1	1395.6	1414.9	1422.4	1428.3
22.5°	1361.4	1361.4	1380.7	1389.6	1400.1
25°	1321.2	1321.2	1346.5	1356.9	1367.3
27.5°	1278.1	1279.5	1307.8	1322.7	1333.1
30°	1230.4	1236.4	1266.2	1284.0	1295.9
32.5°	1179.9	1187.3	1221.5	1243.8	1258.7
35°	1127.8	1138.2	1175.4	1199.2	1218.5
37.5°	1075.7	1089.1	1129.3	1156.1	1175.4
40°	1022.1	1037.0	1078.7	1109.9	1132.3
42.5°	967.1	983.5	1029.6	1065.3	1092.1
45°	912.0	928.4	977.5	1022.1	1048.9
47.5°	854.0	873.4	925.4	977.5	1004.3
50°	797.5	818.3	873.4	929.9	958.2
52.5°	740.9	764.8	822.8	882.3	910.6
55°	684.4	706.7	770.7	831.7	861.5
57.5°	627.9	651.7	718.6	782.6	813.9
60°	571.3	596.6	666.6	733.5	764.8
62.5°	513.3	540.1	614.5	684.4	715.7
65°	458.3	485.0	562.4	635.3	666.6
67.5°	401.7	431.5	511.8	586.2	618.9
70°	345.2	377.9	462.7	537.1	569.8
72.5°	288.6	325.8	412.1	486.5	510.3
75°	233.6	276.7	364.5	409.2	413.6
77.5°	183.0	227.6	311.0	328.8	337.7
80°	133.9	183.0	233.6	255.9	254.4
82.5°	89.3	139.9	168.1	171.1	168.1
85°	52.1	86.3	93.7	92.2	89.3
87.5°	22.3	34.2	29.8	25.3	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)