

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-LD5-35SE-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-LD5-35SE-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3973.8 lumens
Efficiency: N/A
Efficacy: 139.1 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

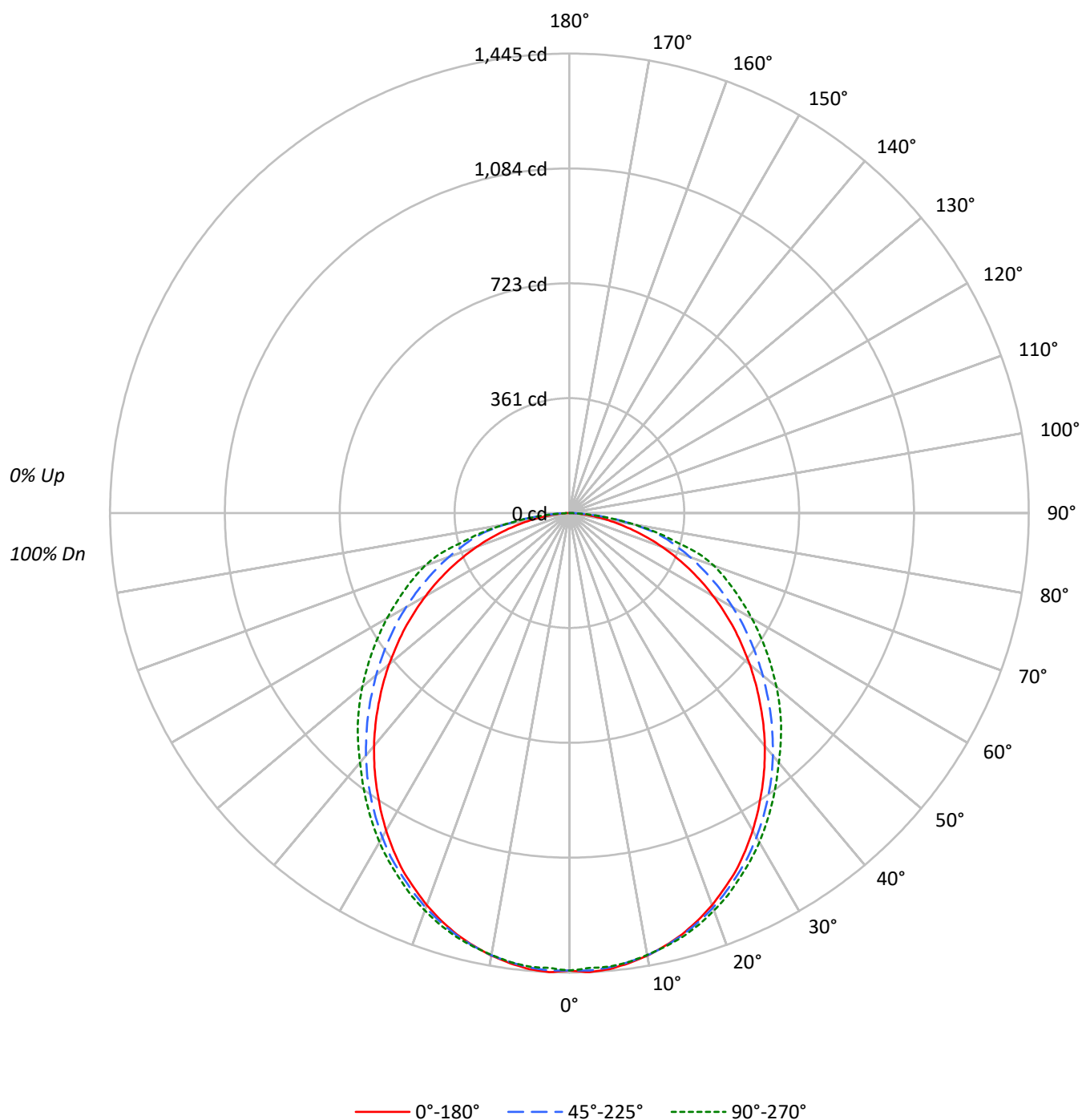
Input Watts (W): 28.57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	99	90	83	77	96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	64		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	69	60	54		66	59	53		64	58	52		62	56	52
5	76	63	53	47	73	61	53	47		59	52	46		57	51	45		55	50	45
6	70	56	47	41	68	55	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	35		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	33	29		39	33	29
10	53	40	32	26	52	39	31	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1936	1936	1936
5°	1941	1929	1926
10°	1923	1912	1911
15°	1897	1887	1896
20°	1861	1856	1871
25°	1820	1816	1838
30°	1766	1774	1805
35°	1705	1725	1765
40°	1645	1674	1727
45°	1576	1618	1706
50°	1505	1562	1680
55°	1431	1511	1656
60°	1347	1463	1640
65°	1255	1417	1642
70°	1139	1385	1674
75°	987	1371	1494
80°	790	1197	1245
85°	523	776	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.4
10°-20°	386.8	9.7
20°-30°	576.5	14.5
30°-40°	678.6	17.1
40°-50°	689.6	17.4
50°-60°	620.0	15.6
60°-70°	489.8	12.3
70°-80°	310.7	7.8
80°-90°	85.8	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°	1099.3	27.7
0°-40°	1777.9	44.7
0°-60°	3087.5	77.7
0°-90°	3973.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3973.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1440	1428	1435	1432	1432	137
15°	1371	1365	1374	1378	1379	386
25°	1240	1239	1254	1261	1267	570
35°	1056	1063	1090	1101	1112	661
45°	849	861	895	922	941	655
55°	632	648	693	738	756	564
65°	415	436	496	550	571	411
75°	208	243	316	344	341	221
85°	44	75	81	74	74	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.6	1438.6	1438.6	1438.6	1438.6
2.5°	1445.2	1434.6	1439.9	1437.3	1432.0
5°	1439.9	1428.0	1434.6	1432.0	1432.0
7.5°	1428.0	1418.8	1424.1	1422.7	1424.1
10°	1413.5	1404.2	1412.2	1412.2	1410.8
12.5°	1393.6	1385.7	1395.0	1395.0	1396.3
15°	1371.2	1364.6	1373.8	1377.8	1379.1
17.5°	1343.4	1336.8	1348.7	1352.7	1356.6
20°	1311.7	1309.0	1320.9	1324.9	1330.2
22.5°	1276.0	1276.0	1287.9	1293.2	1301.1
25°	1240.3	1238.9	1253.5	1261.4	1266.7
27.5°	1197.9	1199.3	1217.8	1225.7	1232.3
30°	1153.0	1155.6	1176.8	1186.0	1195.3
32.5°	1105.4	1110.7	1134.5	1145.1	1154.3
35°	1056.5	1063.1	1089.5	1101.4	1112.0
37.5°	1007.5	1016.8	1044.6	1056.5	1068.4
40°	956.0	963.9	995.6	1010.2	1024.7
42.5°	903.1	913.7	945.4	966.6	983.7
45°	848.9	860.8	895.2	921.6	941.4
47.5°	794.7	810.5	843.6	879.3	896.5
50°	740.5	756.3	793.3	833.0	850.2
52.5°	684.9	700.8	743.1	784.1	802.6
55°	632.0	647.9	692.9	737.8	756.3
57.5°	576.5	593.7	643.9	690.2	708.7
60°	522.3	539.5	593.7	642.6	662.4
62.5°	469.4	487.9	544.8	596.3	616.2
65°	415.2	436.3	495.8	550.1	571.2
67.5°	362.3	386.1	448.2	505.1	527.6
70°	309.4	337.2	403.3	461.5	483.9
72.5°	257.8	288.2	358.3	416.5	428.4
75°	207.6	243.3	316.0	343.8	341.1
77.5°	160.0	199.7	268.4	273.7	281.6
80°	116.4	160.0	201.0	211.6	206.3
82.5°	76.7	120.3	144.1	138.8	137.5
85°	43.6	75.4	80.7	74.0	74.0
87.5°	18.5	30.4	26.4	19.8	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)