

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3895.9 lumens
Efficiency: N/A
Efficacy: 136.4 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

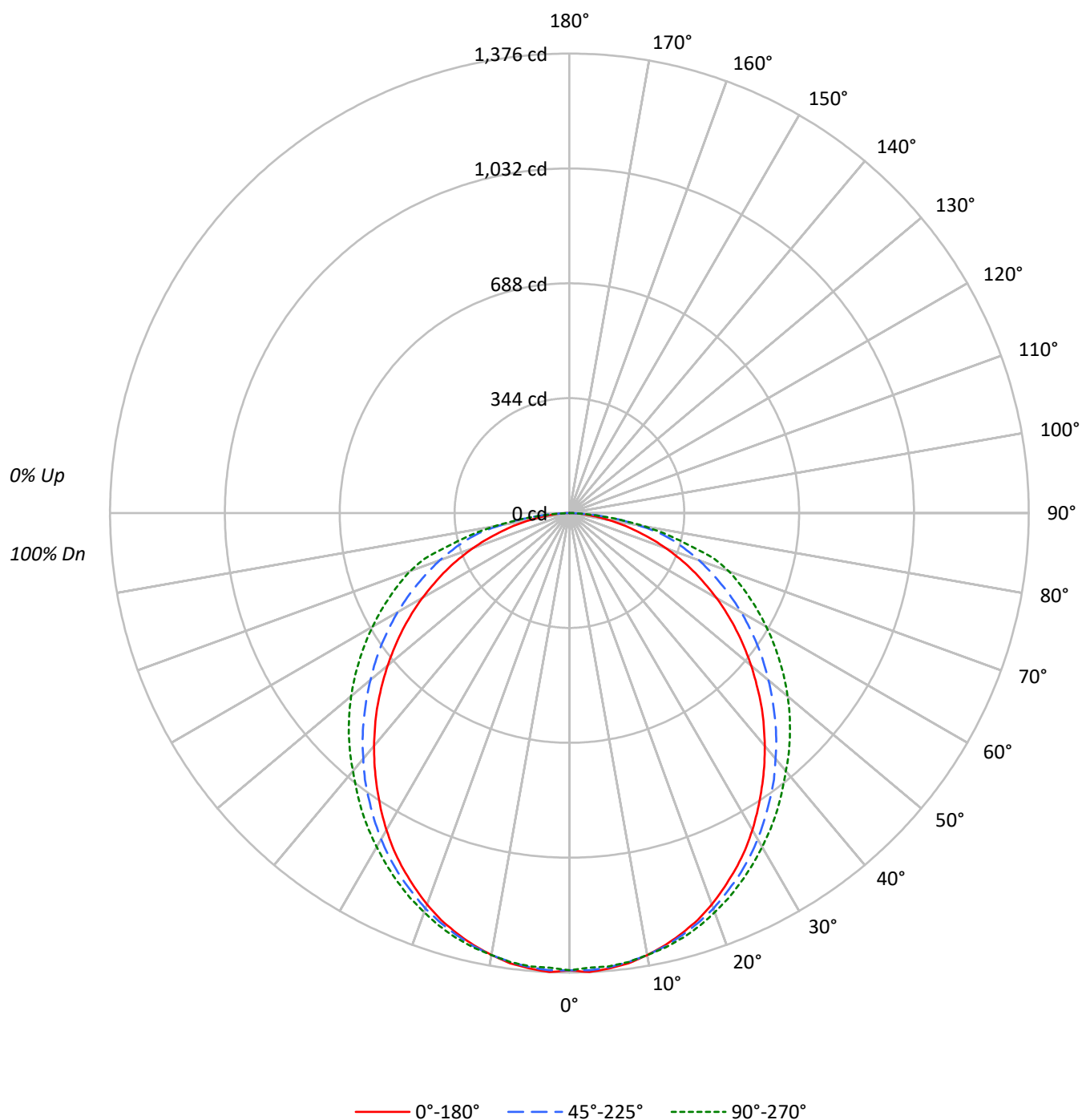
Input Watts (W): 28.57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83		83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68		68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57		57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26		26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1842	1842	1842
5°	1845	1835	1832
10°	1828	1819	1820
15°	1803	1797	1809
20°	1770	1771	1789
25°	1727	1738	1767
30°	1679	1700	1743
35°	1622	1658	1723
40°	1566	1616	1700
45°	1508	1573	1693
50°	1444	1532	1686
55°	1381	1497	1680
60°	1313	1463	1687
65°	1233	1432	1707
70°	1132	1415	1756
75°	990	1409	1614
80°	810	1240	1368
85°	557	803	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	3.3
10°-20°	368.5	9.5
20°-30°	550.8	14.1
30°-40°	653.2	16.8
40°-50°	671.7	17.2
50°-60°	614.4	15.8
60°-70°	495.5	12.7
70°-80°	321.7	8.3
80°-90°	90.5	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°	1048.8	26.9
0°-40°	1702.0	43.7
0°-60°	2988.1	76.7
0°-90°	3895.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3895.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1360	1365	1362	1362	130
15°	1303	1296	1308	1313	1316	367
25°	1177	1177	1199	1209	1218	542
35°	1005	1014	1047	1068	1085	629
45°	812	827	871	910	934	626
55°	610	630	686	741	767	545
65°	408	432	501	566	594	404
75°	208	246	325	364	368	222
85°	46	77	84	82	80	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.1	1369.1	1369.1	1369.1	1369.1
2.5°	1375.7	1365.1	1370.4	1367.7	1362.4
5°	1369.1	1359.8	1365.1	1362.4	1362.4
7.5°	1359.8	1350.5	1355.8	1355.8	1355.8
10°	1343.9	1335.9	1343.9	1343.9	1343.9
12.5°	1325.3	1318.7	1328.0	1329.3	1332.0
15°	1302.8	1296.2	1308.1	1313.4	1316.0
17.5°	1277.6	1272.3	1285.6	1292.2	1296.2
20°	1247.1	1243.2	1260.4	1267.0	1272.3
22.5°	1212.7	1212.7	1229.9	1237.9	1247.1
25°	1176.9	1176.9	1199.4	1208.7	1218.0
27.5°	1138.5	1139.8	1165.0	1178.2	1187.5
30°	1096.0	1101.3	1127.9	1143.8	1154.4
32.5°	1051.0	1057.6	1088.1	1108.0	1121.2
35°	1004.6	1013.9	1047.0	1068.2	1085.4
37.5°	958.2	970.1	1005.9	1029.8	1047.0
40°	910.5	923.8	960.9	988.7	1008.6
42.5°	861.5	876.0	917.1	948.9	972.8
45°	812.4	827.0	870.7	910.5	934.4
47.5°	760.7	778.0	824.4	870.7	894.6
50°	710.4	728.9	778.0	828.3	853.5
52.5°	660.0	681.2	732.9	785.9	811.1
55°	609.6	629.5	686.5	740.9	767.4
57.5°	559.3	580.5	640.1	697.1	725.0
60°	508.9	531.5	593.7	653.4	681.2
62.5°	457.2	481.1	547.4	609.6	637.5
65°	408.2	432.1	501.0	565.9	593.7
67.5°	357.8	384.3	455.9	522.2	551.3
70°	307.5	336.6	412.2	478.4	507.6
72.5°	257.1	290.2	367.1	433.4	454.6
75°	208.1	246.5	324.7	364.5	368.4
77.5°	163.0	202.8	277.0	292.9	300.8
80°	119.3	163.0	208.1	228.0	226.6
82.5°	79.5	124.6	149.8	152.4	149.8
85°	46.4	76.9	83.5	82.2	79.5
87.5°	19.9	30.5	26.5	22.5	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)