

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

Light Source: -
Ballast/Driver: -

Summary

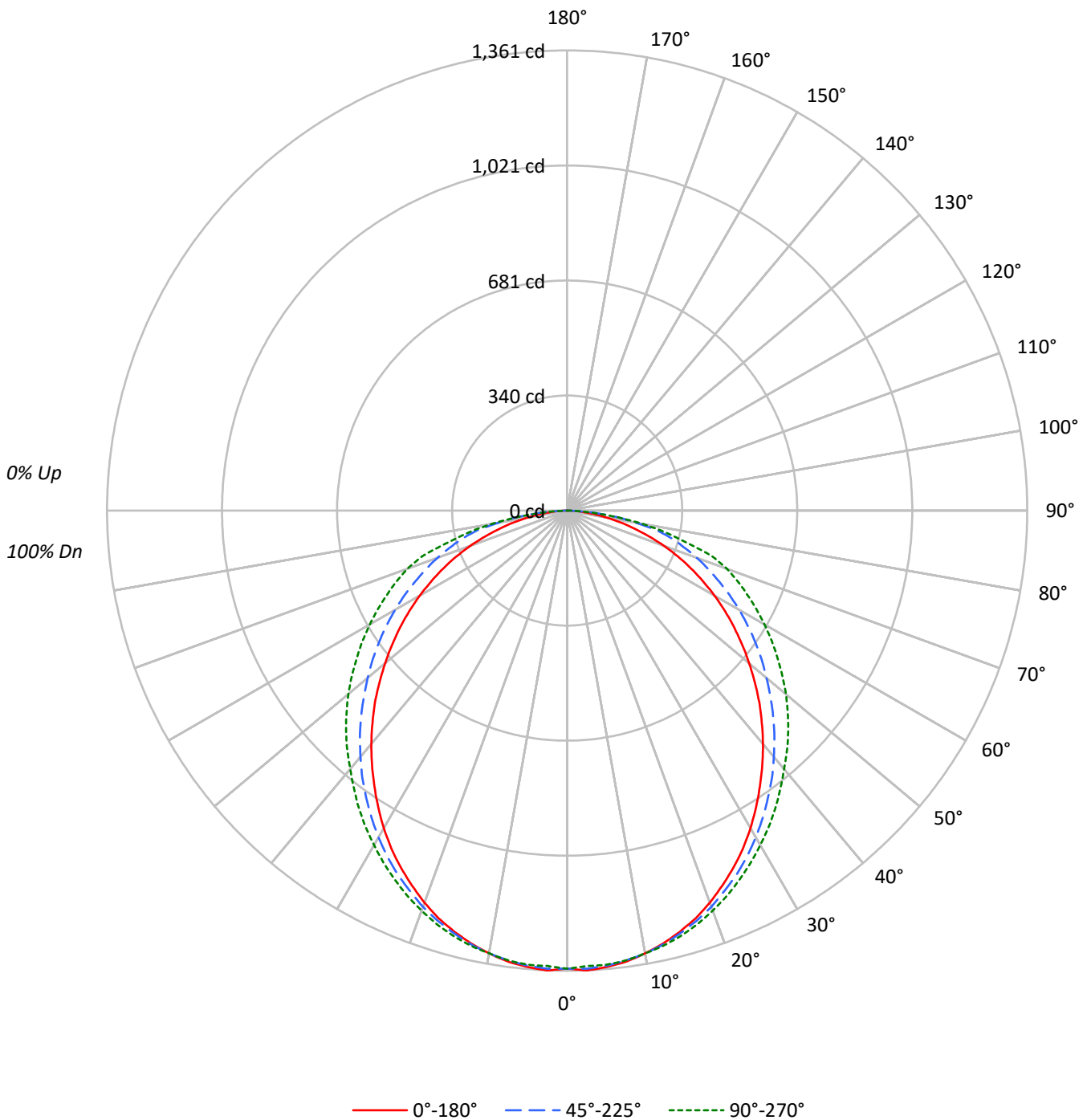
Lumens per Lamp: N/A
Luminaire Lumens: 3855.1 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25.32
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°	1823	1823	1823
5°	1826	1816	1813
10°	1809	1800	1801
15°	1784	1778	1790
20°	1751	1752	1770
25°	1709	1719	1748
30°	1661	1682	1725
35°	1605	1641	1705
40°	1550	1599	1682
45°	1492	1557	1676
50°	1429	1516	1669
55°	1366	1481	1662
60°	1299	1448	1669
65°	1220	1417	1689
70°	1120	1401	1737
75°	979	1394	1597
80°	801	1226	1354
85°	551	794	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.3
10°-20°	364.6	9.5
20°-30°	545.1	14.1
30°-40°	646.3	16.8
40°-50°	664.7	17.2
50°-60°	608.0	15.8
60°-70°	490.4	12.7
70°-80°	318.3	8.3
80°-90°	89.6	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°	1037.8	26.9
0°-40°	1684.1	43.7
0°-60°	2956.8	76.7
0°-90°	3855.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1355	1346	1351	1348	1348	129
15°	1289	1283	1294	1300	1302	363
25°	1165	1165	1187	1196	1205	536
35°	994	1003	1036	1057	1074	622
45°	804	818	862	901	925	620
55°	603	623	679	733	759	540
65°	404	428	496	560	588	399
75°	206	244	321	361	365	220
85°	46	76	83	81	79	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.7	1354.7	1354.7	1354.7	1354.7
2.5°	1361.3	1350.8	1356.0	1353.4	1348.2
5°	1354.7	1345.5	1350.8	1348.2	1348.2
7.5°	1345.5	1336.4	1341.6	1341.6	1341.6
10°	1329.8	1321.9	1329.8	1329.8	1329.8
12.5°	1311.4	1304.9	1314.1	1315.4	1318.0
15°	1289.1	1282.6	1294.4	1299.6	1302.3
17.5°	1264.2	1259.0	1272.1	1278.6	1282.6
20°	1234.1	1230.1	1247.2	1253.7	1259.0
22.5°	1200.0	1200.0	1217.0	1224.9	1234.1
25°	1164.6	1164.6	1186.8	1196.0	1205.2
27.5°	1126.5	1127.8	1152.8	1165.9	1175.0
30°	1084.6	1089.8	1116.0	1131.8	1142.3
32.5°	1040.0	1046.5	1076.7	1096.4	1109.5
35°	994.1	1003.2	1036.0	1057.0	1074.1
37.5°	948.2	960.0	995.4	1019.0	1036.0
40°	901.0	914.1	950.8	978.3	998.0
42.5°	852.4	866.9	907.5	939.0	962.6
45°	803.9	818.3	861.6	901.0	924.6
47.5°	752.8	769.8	815.7	861.6	885.2
50°	702.9	721.3	769.8	819.6	844.6
52.5°	653.1	674.1	725.2	777.7	802.6
55°	603.3	622.9	679.3	733.1	759.3
57.5°	553.4	574.4	633.4	689.8	717.4
60°	503.6	525.9	587.5	646.5	674.1
62.5°	452.4	476.1	541.6	603.3	630.8
65°	403.9	427.5	495.7	560.0	587.5
67.5°	354.1	380.3	451.1	516.7	545.6
70°	304.3	333.1	407.9	473.4	502.3
72.5°	254.4	287.2	363.3	428.8	449.8
75°	205.9	243.9	321.3	360.6	364.6
77.5°	161.3	200.6	274.1	289.8	297.7
80°	118.0	161.3	205.9	225.6	224.3
82.5°	78.7	123.3	148.2	150.8	148.2
85°	45.9	76.1	82.6	81.3	78.7
87.5°	19.7	30.2	26.2	22.3	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)