

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-LD5-30SE-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-LD5-30SE-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.9 lumens
Efficiency: N/A
Efficacy: 143.5 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

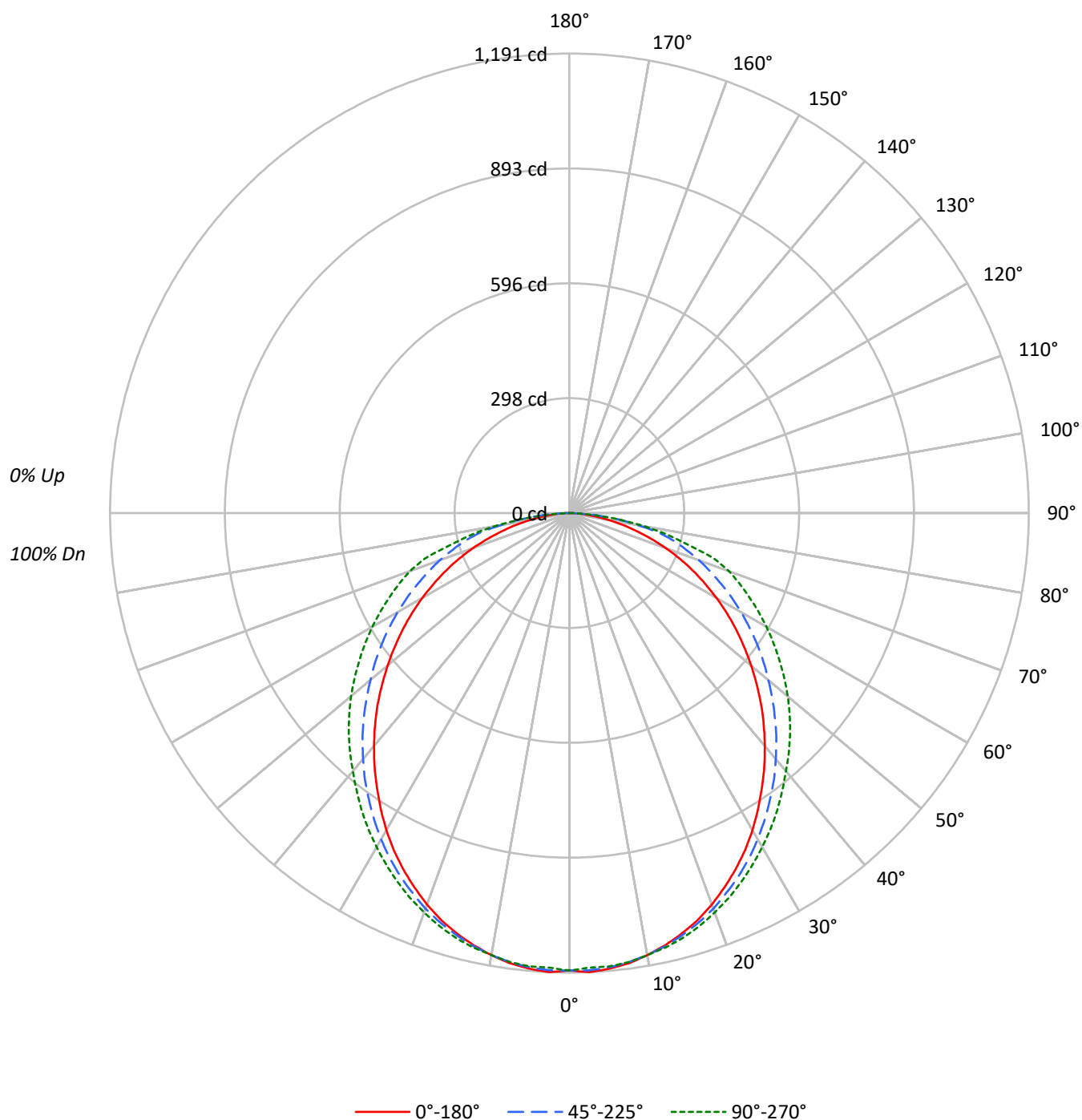
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1595	1595	1595
5°	1597	1589	1586
10°	1583	1575	1576
15°	1561	1555	1566
20°	1532	1533	1549
25°	1495	1504	1530
30°	1453	1472	1509
35°	1404	1436	1491
40°	1356	1399	1472
45°	1306	1362	1466
50°	1250	1326	1460
55°	1195	1296	1455
60°	1136	1267	1461
65°	1068	1240	1478
70°	980	1225	1520
75°	856	1220	1398
80°	701	1073	1184
85°	483	695	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.3
10°-20°	319.0	9.5
20°-30°	476.9	14.1
30°-40°	565.5	16.8
40°-50°	581.5	17.2
50°-60°	531.9	15.8
60°-70°	429.0	12.7
70°-80°	278.5	8.3
80°-90°	78.4	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°	908.0	26.9
0°-40°	1473.5	43.7
0°-60°	2587.0	76.7
0°-90°	3372.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1185	1177	1182	1180	1180	112
15°	1128	1122	1132	1137	1139	318
25°	1019	1019	1038	1046	1054	469
35°	870	878	906	925	940	544
45°	703	716	754	788	809	542
55°	528	545	594	641	664	472
65°	353	374	434	490	514	349
75°	180	213	281	316	319	192
85°	40	66	72	71	69	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1191.0	1181.8	1186.4	1184.1	1179.5
5°	1185.3	1177.2	1181.8	1179.5	1179.5
7.5°	1177.2	1169.2	1173.8	1173.8	1173.8
10°	1163.5	1156.6	1163.5	1163.5	1163.5
12.5°	1147.4	1141.7	1149.7	1150.9	1153.1
15°	1127.9	1122.2	1132.5	1137.1	1139.4
17.5°	1106.1	1101.5	1113.0	1118.7	1122.2
20°	1079.7	1076.3	1091.2	1096.9	1101.5
22.5°	1049.9	1049.9	1064.8	1071.7	1079.7
25°	1018.9	1018.9	1038.4	1046.4	1054.5
27.5°	985.6	986.8	1008.6	1020.0	1028.1
30°	948.9	953.5	976.4	990.2	999.4
32.5°	909.9	915.6	942.0	959.2	970.7
35°	869.7	877.8	906.5	924.8	939.7
37.5°	829.6	839.9	870.9	891.5	906.5
40°	788.3	799.7	831.9	856.0	873.2
42.5°	745.8	758.4	794.0	821.5	842.2
45°	703.4	716.0	753.9	788.3	808.9
47.5°	658.6	673.5	713.7	753.9	774.5
50°	615.0	631.1	673.5	717.1	738.9
52.5°	571.4	589.8	634.5	680.4	702.2
55°	527.8	545.0	594.4	641.4	664.4
57.5°	484.2	502.6	554.2	603.5	627.6
60°	440.6	460.1	514.0	565.7	589.8
62.5°	395.9	416.5	473.9	527.8	551.9
65°	353.4	374.1	433.7	489.9	514.0
67.5°	309.8	332.7	394.7	452.1	477.3
70°	266.2	291.4	356.8	414.2	439.5
72.5°	222.6	251.3	317.8	375.2	393.6
75°	180.1	213.4	281.1	315.5	319.0
77.5°	141.1	175.6	239.8	253.6	260.5
80°	103.3	141.1	180.1	197.4	196.2
82.5°	68.8	107.9	129.7	132.0	129.7
85°	40.2	66.5	72.3	71.1	68.8
87.5°	17.2	26.4	22.9	19.5	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)