

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-L835-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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

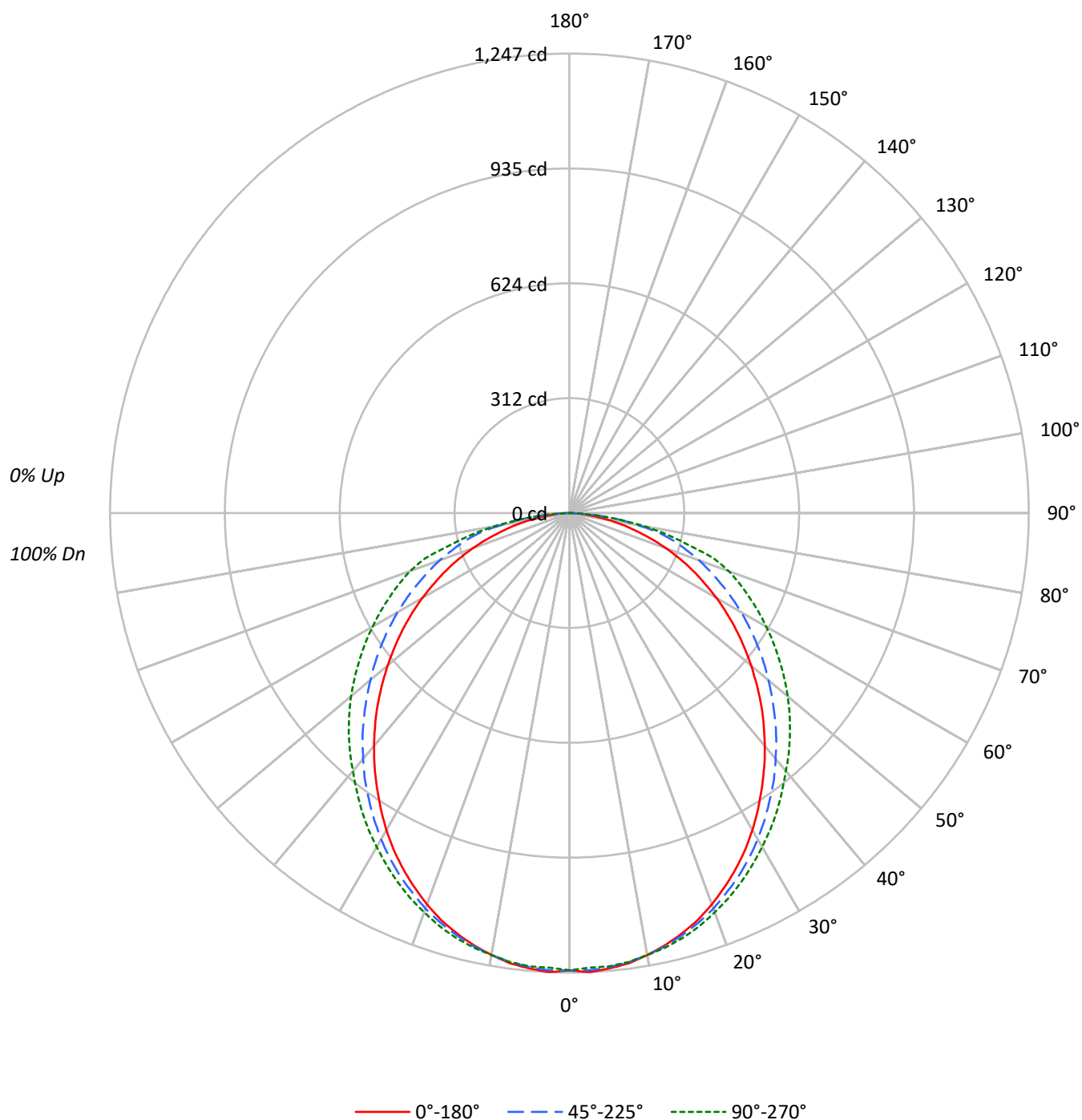
Input Watts (W): 28.57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1669	1669	1669
5°	1672	1663	1660
10°	1657	1649	1650
15°	1634	1628	1640
20°	1604	1605	1622
25°	1565	1575	1601
30°	1521	1541	1580
35°	1470	1503	1561
40°	1420	1464	1541
45°	1367	1426	1535
50°	1309	1388	1528
55°	1251	1357	1523
60°	1190	1326	1529
65°	1118	1298	1547
70°	1026	1283	1591
75°	897	1277	1463
80°	734	1123	1240
85°	504	728	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.3
10°-20°	334.0	9.5
20°-30°	499.2	14.1
30°-40°	592.0	16.8
40°-50°	608.8	17.2
50°-60°	556.9	15.8
60°-70°	449.1	12.7
70°-80°	291.6	8.3
80°-90°	82.0	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°	950.6	26.9
0°-40°	1542.5	43.7
0°-60°	2708.2	76.7
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1241	1232	1237	1235	1235	118
15°	1181	1175	1186	1190	1193	333
25°	1067	1067	1087	1096	1104	491
35°	910	919	949	968	984	570
45°	736	750	789	825	847	568
55°	552	571	622	672	696	494
65°	370	392	454	513	538	366
75°	189	223	294	330	334	201
85°	42	70	76	74	72	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.8	1240.8	1240.8	1240.8	1240.8
2.5°	1246.8	1237.2	1242.0	1239.6	1234.8
5°	1240.8	1232.4	1237.2	1234.8	1234.8
7.5°	1232.4	1224.0	1228.8	1228.8	1228.8
10°	1218.0	1210.8	1218.0	1218.0	1218.0
12.5°	1201.2	1195.2	1203.6	1204.8	1207.2
15°	1180.8	1174.8	1185.6	1190.4	1192.8
17.5°	1157.9	1153.1	1165.2	1171.2	1174.8
20°	1130.3	1126.7	1142.3	1148.3	1153.1
22.5°	1099.1	1099.1	1114.7	1121.9	1130.3
25°	1066.7	1066.7	1087.1	1095.5	1103.9
27.5°	1031.8	1033.0	1055.8	1067.9	1076.3
30°	993.4	998.2	1022.2	1036.6	1046.2
32.5°	952.5	958.5	986.2	1004.2	1016.2
35°	910.5	918.9	948.9	968.2	983.8
37.5°	868.5	879.3	911.7	933.3	948.9
40°	825.2	837.2	870.9	896.1	914.1
42.5°	780.8	794.0	831.2	860.1	881.7
45°	736.3	749.5	789.2	825.2	846.8
47.5°	689.5	705.1	747.1	789.2	810.8
50°	643.8	660.7	705.1	750.7	773.6
52.5°	598.2	617.4	664.3	712.3	735.1
55°	552.5	570.6	622.2	671.5	695.5
57.5°	506.9	526.1	580.2	631.8	657.1
60°	461.3	481.7	538.1	592.2	617.4
62.5°	414.4	436.0	496.1	552.5	577.8
65°	370.0	391.6	454.0	512.9	538.1
67.5°	324.3	348.3	413.2	473.3	499.7
70°	278.7	305.1	373.6	433.6	460.1
72.5°	233.0	263.1	332.7	392.8	412.0
75°	188.6	223.4	294.3	330.3	333.9
77.5°	147.7	183.8	251.0	265.5	272.7
80°	108.1	147.7	188.6	206.6	205.4
82.5°	72.1	112.9	135.7	138.1	135.7
85°	42.0	69.7	75.7	74.5	72.1
87.5°	18.0	27.6	24.0	20.4	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)