

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

Light Source: -
Ballast/Driver: -

Summary

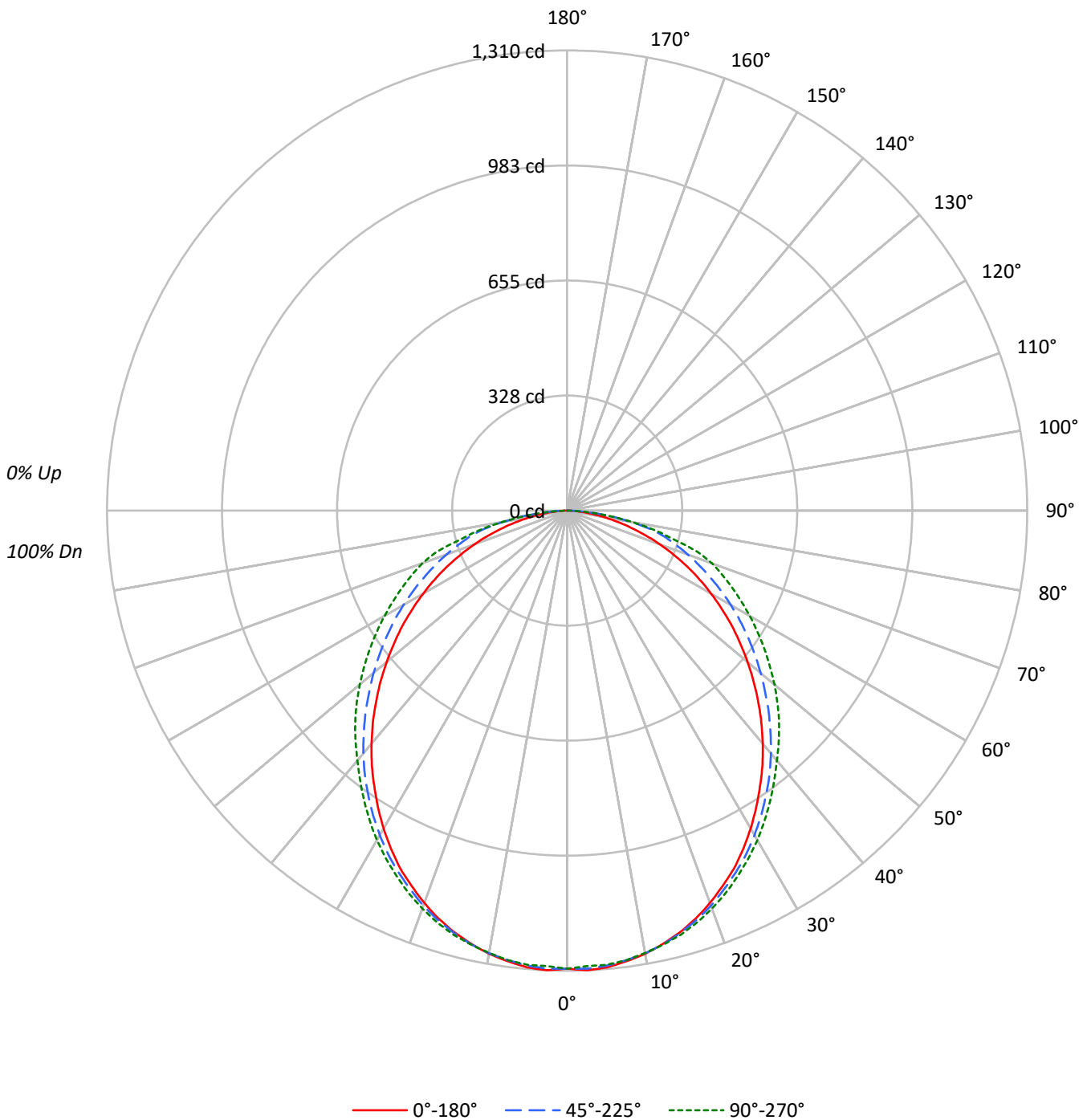
Lumens per Lamp: N/A
Luminaire Lumens: 3601.6 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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	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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1754	1754	1754
5°	1759	1748	1745
10°	1743	1732	1732
15°	1720	1710	1718
20°	1687	1682	1695
25°	1650	1646	1666
30°	1600	1608	1636
35°	1546	1564	1599
40°	1490	1517	1566
45°	1428	1466	1546
50°	1364	1416	1522
55°	1297	1369	1501
60°	1221	1326	1487
65°	1137	1285	1489
70°	1032	1255	1517
75°	894	1243	1355
80°	716	1085	1128
85°	474	703	659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.4
10°-20°	350.6	9.7
20°-30°	522.5	14.5
30°-40°	615.0	17.1
40°-50°	625.0	17.4
50°-60°	561.9	15.6
60°-70°	443.9	12.3
70°-80°	281.6	7.8
80°-90°	77.7	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°	996.3	27.7
0°-40°	1611.4	44.7
0°-60°	2798.3	77.7
0°-90°	3601.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3601.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1305	1294	1300	1298	1298	124
15°	1243	1237	1245	1249	1250	350
25°	1124	1123	1136	1143	1148	517
35°	958	964	988	998	1008	599
45°	769	780	811	835	853	594
55°	573	587	628	669	686	512
65°	376	396	449	498	518	373
75°	188	220	286	312	309	200
85°	40	68	73	67	67	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.9	1303.9	1303.9	1303.9	1303.9
2.5°	1309.8	1300.3	1305.1	1302.7	1297.9
5°	1305.1	1294.3	1300.3	1297.9	1297.9
7.5°	1294.3	1285.9	1290.7	1289.5	1290.7
10°	1281.1	1272.7	1279.9	1279.9	1278.7
12.5°	1263.1	1255.9	1264.3	1264.3	1265.5
15°	1242.7	1236.7	1245.1	1248.7	1249.9
17.5°	1217.6	1211.6	1222.4	1226.0	1229.6
20°	1188.8	1186.4	1197.2	1200.8	1205.6
22.5°	1156.5	1156.5	1167.2	1172.0	1179.2
25°	1124.1	1122.9	1136.1	1143.3	1148.1
27.5°	1085.7	1086.9	1103.7	1110.9	1116.9
30°	1045.0	1047.4	1066.6	1075.0	1083.3
32.5°	1001.9	1006.7	1028.2	1037.8	1046.2
35°	957.5	963.5	987.5	998.3	1007.8
37.5°	913.2	921.6	946.7	957.5	968.3
40°	866.4	873.6	902.4	915.6	928.8
42.5°	818.5	828.1	856.9	876.0	891.6
45°	769.4	780.2	811.3	835.3	853.3
47.5°	720.2	734.6	764.6	796.9	812.5
50°	671.1	685.5	719.0	755.0	770.6
52.5°	620.8	635.1	673.5	710.6	727.4
55°	572.8	587.2	628.0	668.7	685.5
57.5°	522.5	538.1	583.6	625.6	642.3
60°	473.4	488.9	538.1	582.4	600.4
62.5°	425.4	442.2	493.7	540.5	558.5
65°	376.3	395.5	449.4	498.5	517.7
67.5°	328.4	349.9	406.3	457.8	478.2
70°	280.4	305.6	365.5	418.2	438.6
72.5°	233.7	261.2	324.8	377.5	388.3
75°	188.1	220.5	286.4	311.6	309.2
77.5°	145.0	181.0	243.3	248.1	255.3
80°	105.5	145.0	182.2	191.7	186.9
82.5°	69.5	109.1	130.6	125.8	124.6
85°	39.5	68.3	73.1	67.1	67.1
87.5°	16.8	27.6	24.0	18.0	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)