

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-L830-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-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.9 lumens
Efficiency: N/A
Efficacy: 116.3 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

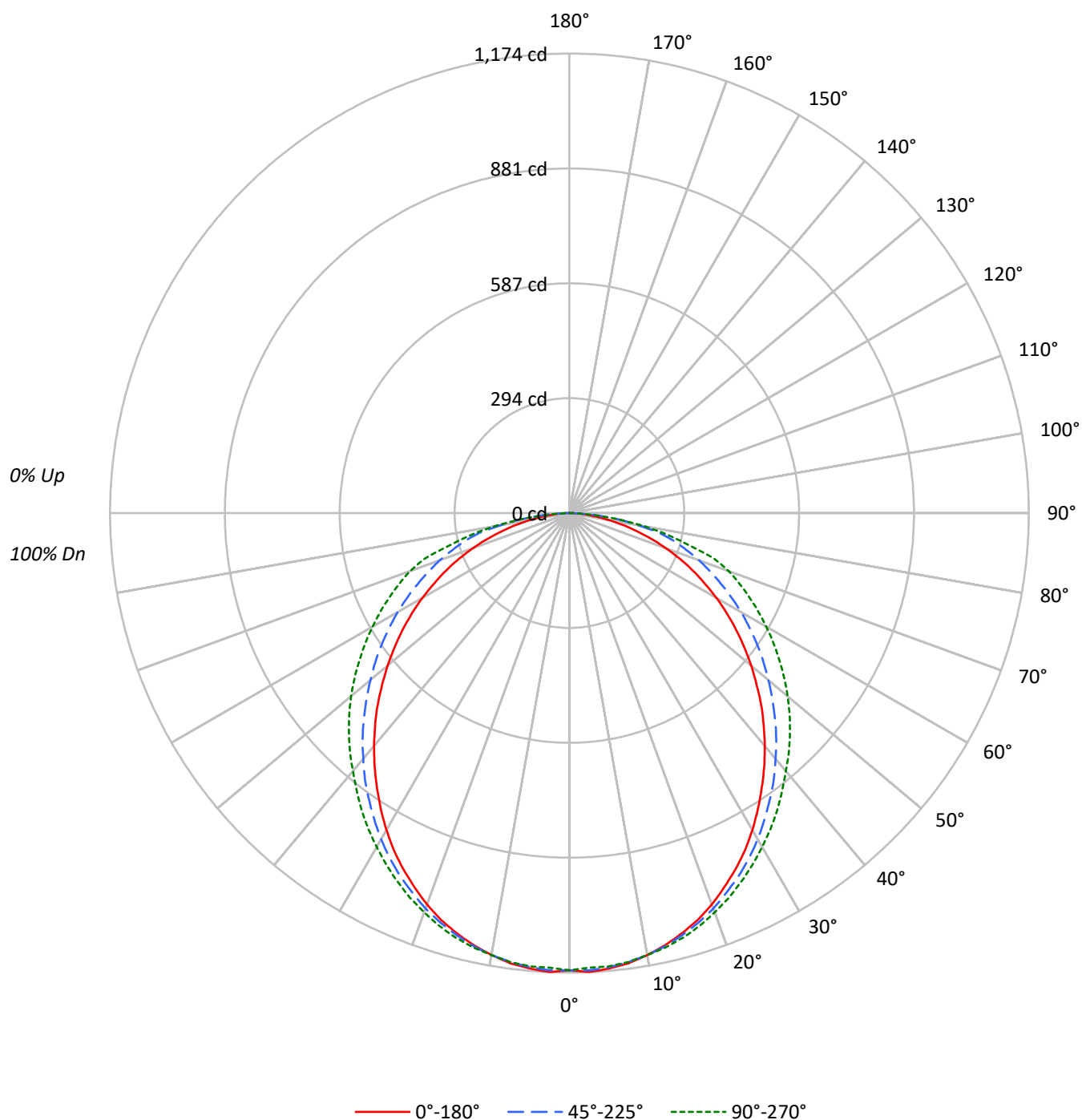
Input Watts (W): 28.57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	10
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°	1572	1572	1572
5°	1574	1566	1563
10°	1560	1552	1553
15°	1538	1533	1543
20°	1510	1511	1526
25°	1473	1483	1507
30°	1432	1451	1487
35°	1384	1415	1470
40°	1336	1379	1451
45°	1287	1342	1445
50°	1232	1307	1439
55°	1178	1277	1433
60°	1120	1248	1439
65°	1052	1222	1456
70°	966	1208	1498
75°	844	1202	1377
80°	690	1058	1167
85°	475	684	666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.3
10°-20°	314.4	9.5
20°-30°	470.0	14.1
30°-40°	557.3	16.8
40°-50°	573.1	17.2
50°-60°	524.2	15.8
60°-70°	422.8	12.7
70°-80°	274.5	8.3
80°-90°	77.2	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°	894.8	26.9
0°-40°	1452.1	43.7
0°-60°	2549.3	76.7
0°-90°	3323.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1168	1160	1165	1162	1162	111
15°	1112	1106	1116	1120	1123	313
25°	1004	1004	1023	1031	1039	462
35°	857	865	893	911	926	536
45°	693	706	743	777	797	534
55°	520	537	586	632	655	465
65°	348	369	427	483	506	344
75°	178	210	277	311	314	189
85°	40	66	71	70	68	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1173.7	1164.6	1169.2	1166.9	1162.4
5°	1168.0	1160.1	1164.6	1162.4	1162.4
7.5°	1160.1	1152.2	1156.7	1156.7	1156.7
10°	1146.6	1139.8	1146.6	1146.6	1146.6
12.5°	1130.7	1125.1	1133.0	1134.1	1136.4
15°	1111.5	1105.9	1116.1	1120.5	1122.8
17.5°	1090.0	1085.5	1096.8	1102.5	1105.9
20°	1064.0	1060.6	1075.3	1081.0	1085.5
22.5°	1034.6	1034.6	1049.3	1056.1	1064.0
25°	1004.1	1004.1	1023.3	1031.2	1039.1
27.5°	971.3	972.4	993.9	1005.2	1013.2
30°	935.1	939.6	962.3	975.8	984.9
32.5°	896.7	902.3	928.3	945.2	956.6
35°	857.1	865.0	893.3	911.3	926.1
37.5°	817.5	827.7	858.2	878.6	893.3
40°	776.8	788.1	819.8	843.5	860.5
42.5°	735.0	747.4	782.4	809.6	829.9
45°	693.1	705.6	742.9	776.8	797.1
47.5°	649.0	663.8	703.3	742.9	763.2
50°	606.1	621.9	663.8	706.7	728.2
52.5°	563.1	581.2	625.3	670.5	692.0
55°	520.1	537.1	585.7	632.0	654.6
57.5°	477.2	495.2	546.2	594.8	618.5
60°	434.2	453.4	506.5	557.5	581.2
62.5°	390.1	410.5	467.0	520.1	543.9
65°	348.3	368.6	427.4	482.8	506.5
67.5°	305.3	327.9	388.9	445.6	470.3
70°	262.3	287.2	351.7	408.2	433.1
72.5°	219.4	247.7	313.2	369.7	387.9
75°	177.6	210.3	277.0	310.9	314.4
77.5°	139.1	173.0	236.4	249.8	256.7
80°	101.7	139.1	177.6	194.5	193.3
82.5°	67.8	106.3	127.8	130.1	127.8
85°	39.6	65.6	71.2	70.1	67.8
87.5°	17.0	26.0	22.6	19.2	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)