

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: P260856

Luminaire Tested: **24CZ-LD5-40-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3319.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

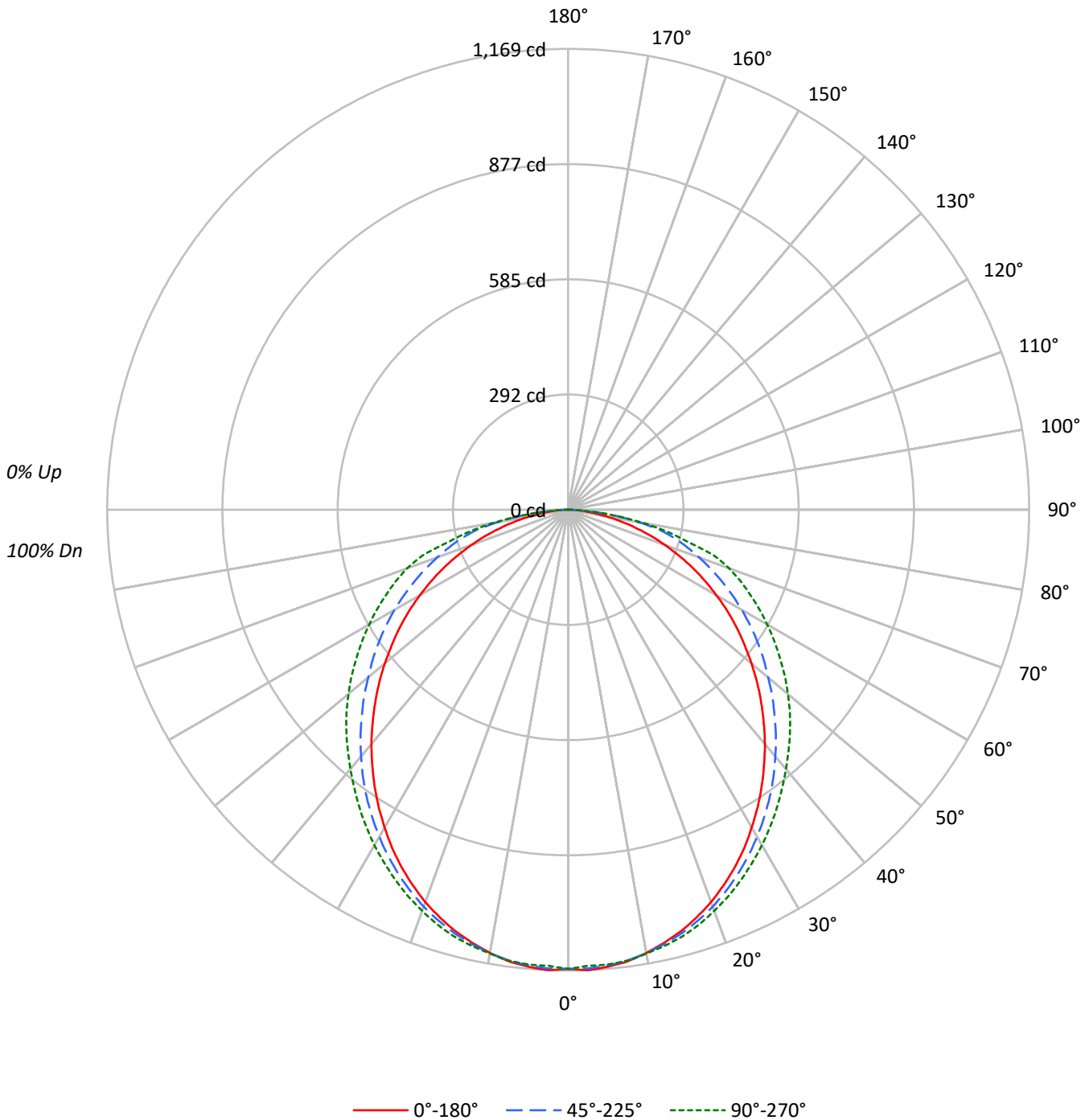
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1567	1567	1567
5°	1572	1567	1564
10°	1560	1560	1562
15°	1542	1550	1561
20°	1516	1534	1551
25°	1485	1513	1539
30°	1446	1488	1527
35°	1406	1463	1516
40°	1363	1435	1509
45°	1317	1408	1514
50°	1270	1384	1522
55°	1224	1376	1538
60°	1168	1367	1569
65°	1107	1368	1621
70°	1024	1390	1708
75°	915	1454	1625
80°	766	1391	1488
85°	579	1070	1017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.3
10°-20°	313.3	9.4
20°-30°	468.3	14.1
30°-40°	555.6	16.7
40°-50°	571.8	17.2
50°-60°	524.6	15.8
60°-70°	424.2	12.8
70°-80°	275.3	8.3
80°-90°	75.9	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°	891.7	26.9
0°-40°	1447.2	43.6
0°-60°	2543.7	76.6
0°-90°	3319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1164	1156	1160	1159	1158	110
15°	1107	1102	1112	1117	1120	312
25°	1000	1001	1019	1028	1036	460
35°	856	862	891	910	923	535
45°	692	703	740	775	796	534
55°	522	538	586	634	656	466
65°	348	368	430	486	509	344
75°	176	209	280	312	312	187
85°	38	64	69	67	66	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.8	1164.8	1164.8	1164.8	1164.8
2.5°	1169.3	1160.3	1164.8	1163.7	1158.0
5°	1163.7	1155.7	1160.3	1159.1	1158.0
7.5°	1155.7	1147.8	1153.4	1152.3	1153.4
10°	1142.1	1135.3	1142.1	1143.2	1143.2
12.5°	1125.0	1119.3	1128.4	1130.7	1133.0
15°	1106.8	1102.3	1112.5	1117.1	1120.5
17.5°	1084.1	1080.7	1093.2	1098.9	1103.4
20°	1059.1	1058.0	1071.6	1077.3	1083.0
22.5°	1030.7	1030.7	1046.6	1053.4	1061.4
25°	1000.0	1001.2	1019.3	1028.4	1036.4
27.5°	967.1	968.2	989.8	1001.2	1010.2
30°	930.7	935.2	958.0	972.7	983.0
32.5°	894.3	900.0	925.0	942.1	953.4
35°	855.7	862.5	890.9	910.2	922.7
37.5°	815.9	823.9	854.6	876.2	890.9
40°	776.2	785.2	817.1	842.1	859.1
42.5°	734.1	744.3	779.6	809.1	827.3
45°	692.1	703.4	739.8	775.0	795.5
47.5°	650.0	663.6	702.3	740.9	762.5
50°	606.8	620.5	661.4	705.7	727.3
52.5°	563.6	579.6	625.0	670.5	692.1
55°	521.6	537.5	586.4	634.1	655.7
57.5°	478.4	494.3	547.7	597.7	619.3
60°	434.1	452.3	508.0	559.1	583.0
62.5°	390.9	410.2	469.3	523.9	546.6
65°	347.7	368.2	429.6	486.4	509.1
67.5°	303.4	327.3	390.9	448.9	472.7
70°	260.2	286.4	353.4	411.4	434.1
72.5°	218.2	246.6	315.9	375.0	388.6
75°	176.1	209.1	279.6	312.5	312.5
77.5°	136.4	172.7	238.6	251.1	258.0
80°	98.9	138.6	179.5	194.3	192.0
82.5°	65.9	105.7	128.4	128.4	125.0
85°	37.5	63.6	69.3	67.0	65.9
87.5°	15.9	23.9	21.6	17.0	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)