

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: P260853

Luminaire Tested: **24CZ-LD5-35-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260853
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-LD5-35-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3317.0 lumens
Efficiency: N/A
Efficacy: 133.1 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

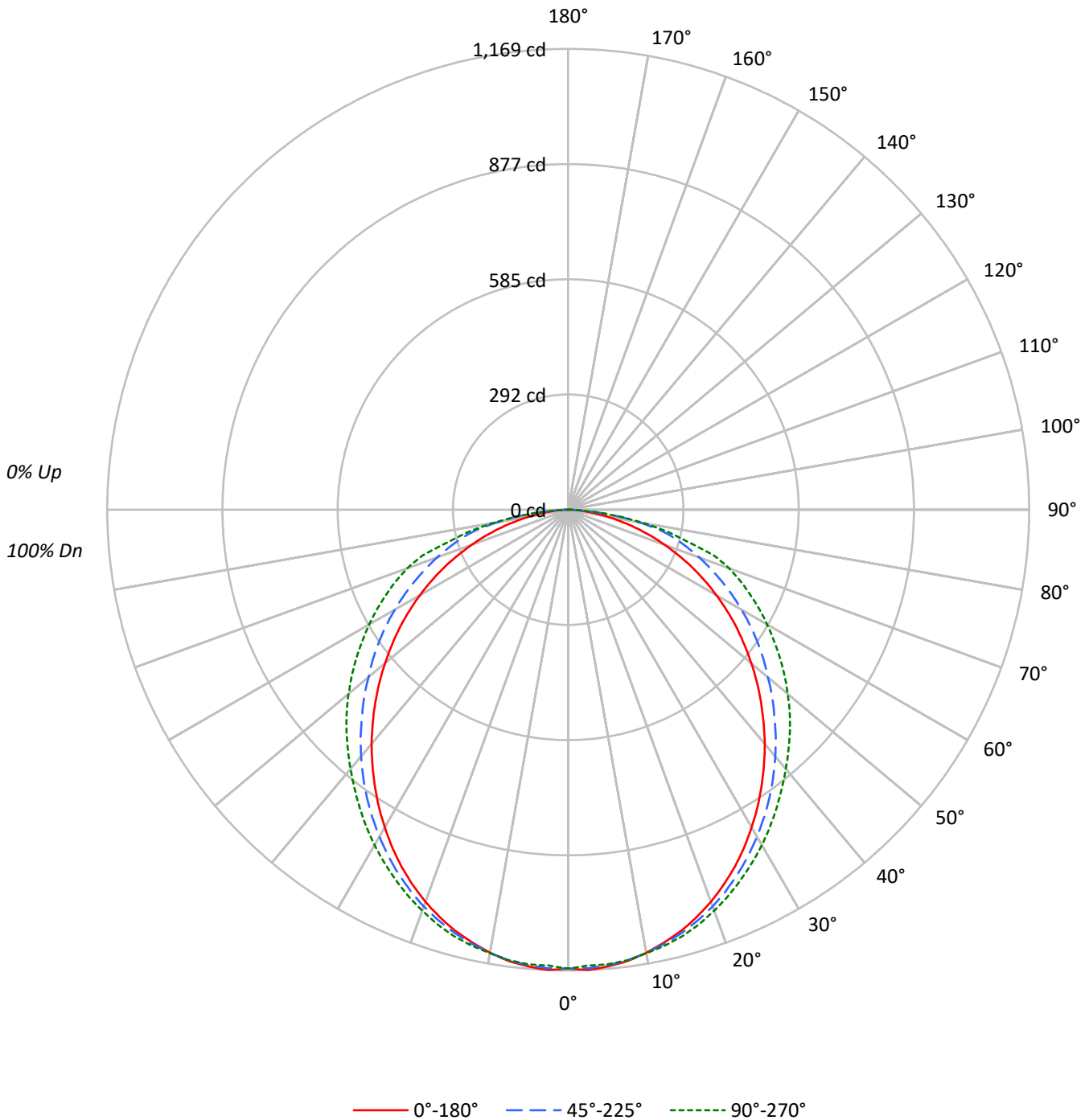
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1566	1566	1566
5°	1571	1566	1563
10°	1559	1559	1561
15°	1541	1549	1560
20°	1516	1534	1550
25°	1484	1512	1538
30°	1445	1487	1526
35°	1405	1463	1515
40°	1362	1434	1508
45°	1316	1407	1513
50°	1270	1384	1521
55°	1223	1375	1537
60°	1167	1366	1568
65°	1106	1367	1620
70°	1023	1389	1707
75°	915	1452	1624
80°	766	1390	1487
85°	579	1070	1017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.3
10°-20°	313.1	9.4
20°-30°	468.0	14.1
30°-40°	555.3	16.7
40°-50°	571.5	17.2
50°-60°	524.3	15.8
60°-70°	423.9	12.8
70°-80°	275.1	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°	891.1	26.9
0°-40°	1446.4	43.6
0°-60°	2542.1	76.6
0°-90°	3317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1163	1155	1160	1158	1157	110
15°	1106	1102	1112	1116	1120	312
25°	999	1001	1019	1028	1036	460
35°	855	862	890	910	922	535
45°	692	703	739	774	795	534
55°	521	537	586	634	655	466
65°	348	368	429	486	509	343
75°	176	209	279	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°	1164.1	1164.1	1164.1	1164.1	1164.1
2.5°	1168.6	1159.6	1164.1	1163.0	1157.3
5°	1163.0	1155.0	1159.6	1158.4	1157.3
7.5°	1155.0	1147.1	1152.7	1151.6	1152.7
10°	1141.4	1134.6	1141.4	1142.5	1142.5
12.5°	1124.3	1118.7	1127.8	1130.0	1132.3
15°	1106.2	1101.6	1111.9	1116.4	1119.8
17.5°	1083.5	1080.1	1092.5	1098.2	1102.8
20°	1058.5	1057.3	1071.0	1076.6	1082.3
22.5°	1030.1	1030.1	1046.0	1052.8	1060.7
25°	999.4	1000.6	1018.7	1027.8	1035.8
27.5°	966.5	967.6	989.2	1000.6	1009.6
30°	930.1	934.7	957.4	972.2	982.4
32.5°	893.8	899.5	924.5	941.5	952.9
35°	855.2	862.0	890.4	909.7	922.2
37.5°	815.4	823.4	854.0	875.6	890.4
40°	775.7	784.8	816.6	841.6	858.6
42.5°	733.7	743.9	779.1	808.6	826.8
45°	691.6	703.0	739.3	774.5	795.0
47.5°	649.6	663.2	701.9	740.5	762.1
50°	606.5	620.1	661.0	705.3	726.8
52.5°	563.3	579.2	624.6	670.1	691.6
55°	521.3	537.2	586.0	633.7	655.3
57.5°	478.1	494.0	547.4	597.4	619.0
60°	433.8	452.0	507.7	558.8	582.6
62.5°	390.7	410.0	469.0	523.6	546.3
65°	347.5	368.0	429.3	486.1	508.8
67.5°	303.2	327.1	390.7	448.6	472.5
70°	260.1	286.2	353.2	411.1	433.8
72.5°	218.1	246.4	315.7	374.8	388.4
75°	176.0	209.0	279.4	312.3	312.3
77.5°	136.3	172.6	238.5	251.0	257.8
80°	98.8	138.6	179.4	194.2	191.9
82.5°	65.9	105.6	128.3	128.3	124.9
85°	37.5	63.6	69.3	67.0	65.9
87.5°	15.9	23.8	21.6	17.0	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)