

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: P260857

Luminaire Tested: **24CZ-LD5-40-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260857
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3485.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

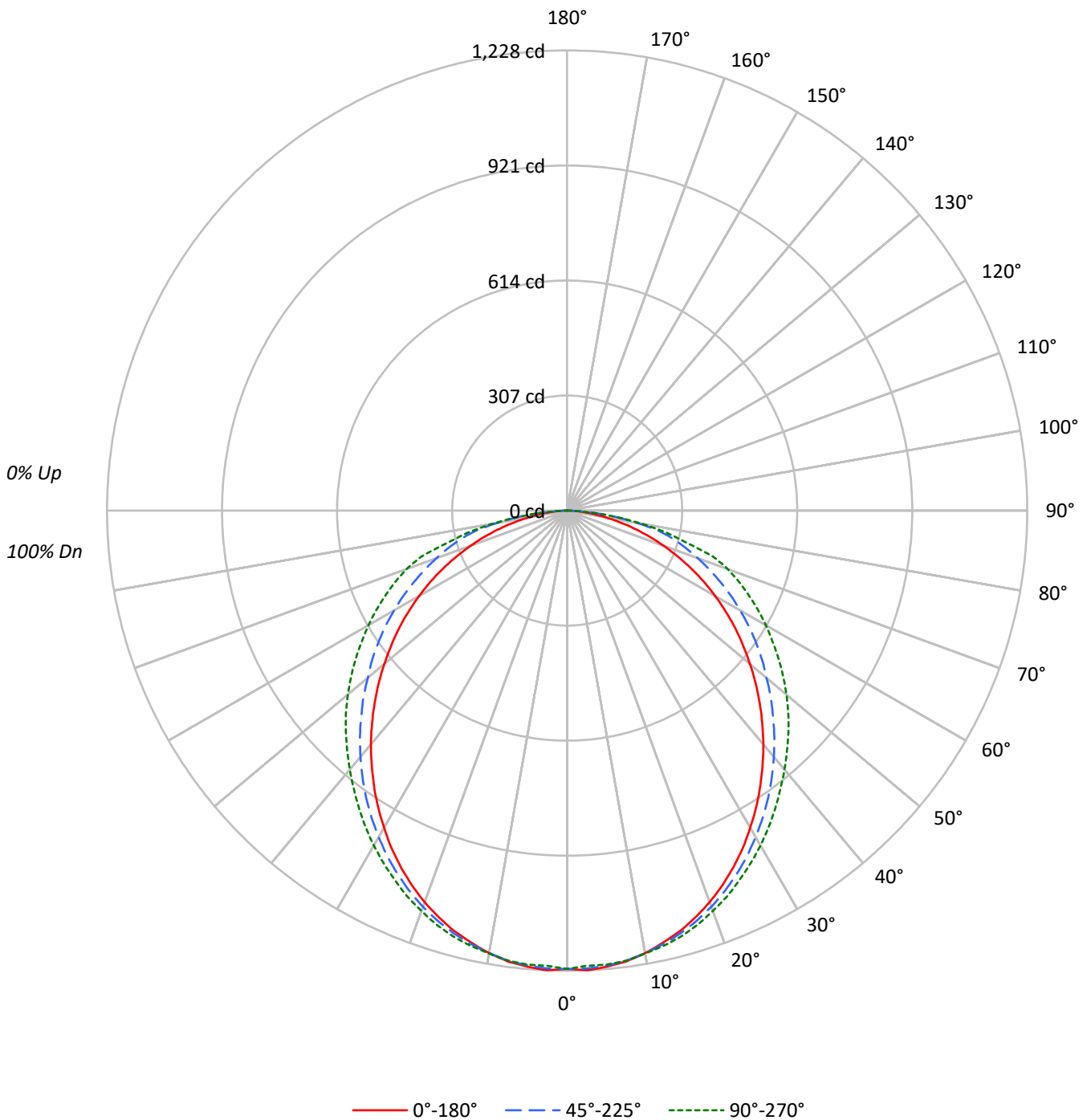
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1646	1646	1646
5°	1650	1645	1642
10°	1638	1638	1640
15°	1619	1627	1639
20°	1592	1611	1628
25°	1559	1589	1616
30°	1518	1563	1604
35°	1476	1537	1591
40°	1431	1507	1584
45°	1383	1478	1589
50°	1334	1454	1599
55°	1285	1444	1615
60°	1227	1435	1647
65°	1162	1436	1702
70°	1075	1460	1793
75°	961	1526	1706
80°	804	1461	1563
85°	608	1124	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.3
10°-20°	328.9	9.4
20°-30°	491.7	14.1
30°-40°	583.4	16.7
40°-50°	600.4	17.2
50°-60°	550.8	15.8
60°-70°	445.4	12.8
70°-80°	289.0	8.3
80°-90°	79.7	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°	936.3	26.9
0°-40°	1519.6	43.6
0°-60°	2670.9	76.6
0°-90°	3485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1222	1214	1218	1217	1216	116
15°	1162	1157	1168	1173	1176	327
25°	1050	1051	1070	1080	1088	483
35°	898	906	936	956	969	562
45°	727	739	777	814	835	561
55°	548	564	616	666	688	489
65°	365	387	451	511	535	361
75°	185	220	294	328	328	197
85°	39	67	73	70	69	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.1	1223.1	1223.1	1223.1	1223.1
2.5°	1227.8	1218.3	1223.1	1221.9	1215.9
5°	1221.9	1213.5	1218.3	1217.1	1215.9
7.5°	1213.5	1205.2	1211.1	1209.9	1211.1
10°	1199.2	1192.0	1199.2	1200.4	1200.4
12.5°	1181.3	1175.3	1184.9	1187.3	1189.6
15°	1162.2	1157.4	1168.2	1172.9	1176.5
17.5°	1138.3	1134.8	1147.9	1153.8	1158.6
20°	1112.1	1110.9	1125.2	1131.2	1137.1
22.5°	1082.3	1082.3	1099.0	1106.1	1114.5
25°	1050.0	1051.2	1070.3	1079.9	1088.2
27.5°	1015.4	1016.6	1039.3	1051.2	1060.8
30°	977.2	982.0	1005.9	1021.4	1032.1
32.5°	939.1	945.0	971.3	989.2	1001.1
35°	898.5	905.7	935.5	955.8	968.9
37.5°	856.7	865.1	897.3	920.0	935.5
40°	815.0	824.5	857.9	884.2	902.1
42.5°	770.8	781.6	818.6	849.6	868.7
45°	726.7	738.6	776.8	813.8	835.3
47.5°	682.5	696.8	737.4	778.0	800.7
50°	637.2	651.5	694.5	741.0	763.7
52.5°	591.8	608.5	656.3	704.0	726.7
55°	547.7	564.4	615.7	665.8	688.5
57.5°	502.3	519.1	575.1	627.6	650.3
60°	455.8	474.9	533.4	587.1	612.1
62.5°	410.5	430.8	492.8	550.1	573.9
65°	365.1	386.6	451.0	510.7	534.6
67.5°	318.6	343.6	410.5	471.3	496.4
70°	273.2	300.7	371.1	431.9	455.8
72.5°	229.1	258.9	331.7	393.8	408.1
75°	184.9	219.6	293.5	328.1	328.1
77.5°	143.2	181.4	250.6	263.7	270.9
80°	103.8	145.6	188.5	204.0	201.7
82.5°	69.2	111.0	134.8	134.8	131.3
85°	39.4	66.8	72.8	70.4	69.2
87.5°	16.7	25.1	22.7	17.9	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)