

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: P260608

Luminaire Tested: **24CZ-LD5-35SE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260608
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-LD5-35SE-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3557.0 lumens
Efficiency: N/A
Efficacy: 136.6 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

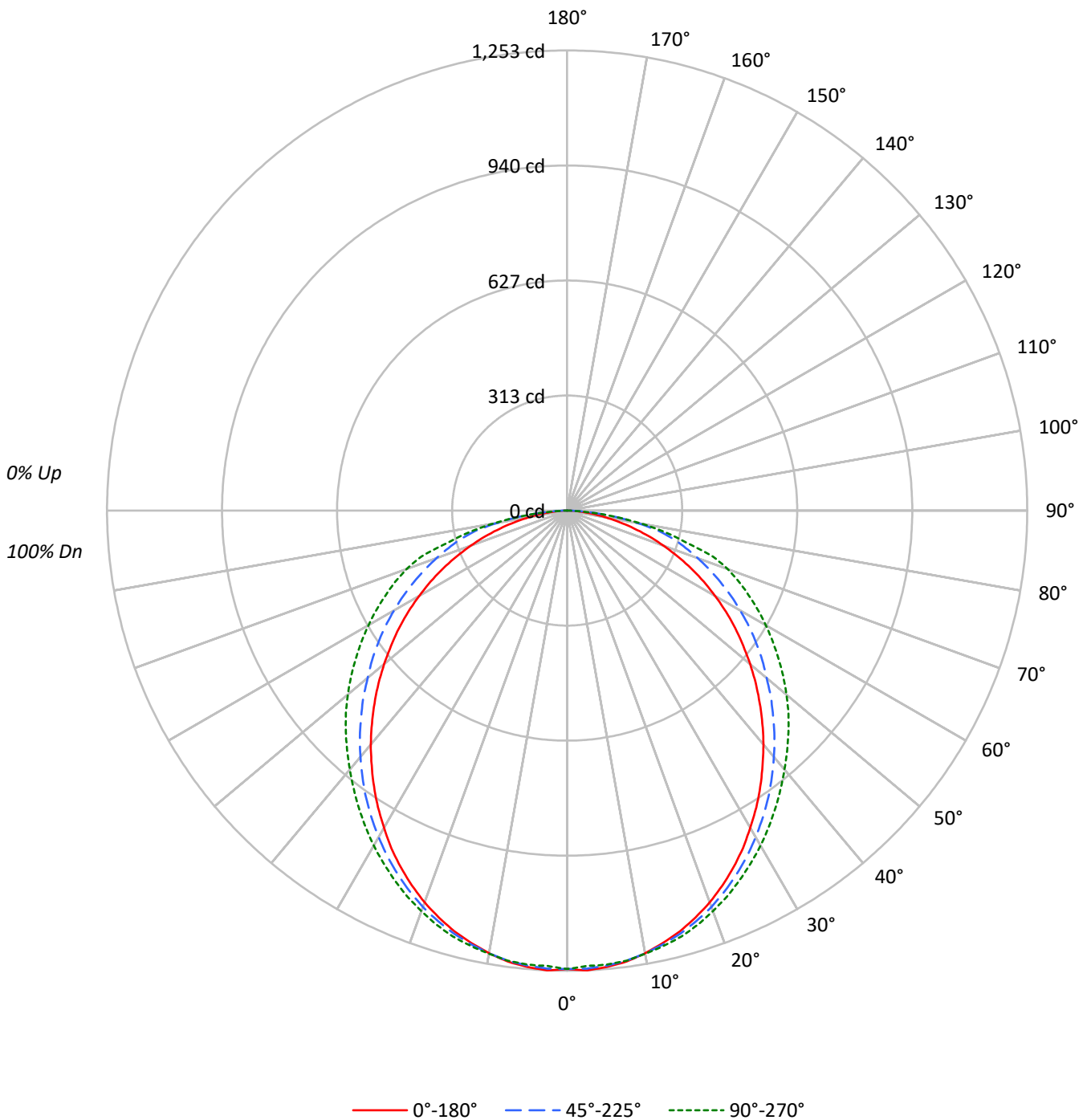
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1680	1680	1680
5°	1684	1680	1676
10°	1672	1672	1674
15°	1652	1661	1673
20°	1625	1644	1662
25°	1591	1622	1649
30°	1550	1595	1637
35°	1506	1568	1624
40°	1461	1538	1617
45°	1411	1509	1622
50°	1361	1484	1631
55°	1311	1474	1648
60°	1252	1465	1681
65°	1187	1466	1737
70°	1097	1490	1830
75°	981	1557	1741
80°	821	1491	1595
85°	621	1147	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.3
10°-20°	335.7	9.4
20°-30°	501.9	14.1
30°-40°	595.4	16.7
40°-50°	612.8	17.2
50°-60°	562.2	15.8
60°-70°	454.6	12.8
70°-80°	295.0	8.3
80°-90°	81.4	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°	955.6	26.9
0°-40°	1551.0	43.6
0°-60°	2726.1	76.6
0°-90°	3557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1247	1239	1244	1242	1241	118
15°	1186	1181	1192	1197	1201	334
25°	1072	1073	1092	1102	1111	493
35°	917	924	955	976	989	573
45°	742	754	793	831	852	572
55°	559	576	628	680	703	499
65°	373	395	460	521	546	368
75°	189	224	300	335	335	201
85°	40	68	74	72	71	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1253.2	1243.5	1248.3	1247.1	1241.0
5°	1247.1	1238.6	1243.5	1242.2	1241.0
7.5°	1238.6	1230.1	1236.1	1234.9	1236.1
10°	1224.0	1216.7	1224.0	1225.2	1225.2
12.5°	1205.7	1199.6	1209.4	1211.8	1214.2
15°	1186.2	1181.3	1192.3	1197.2	1200.8
17.5°	1161.9	1158.2	1171.6	1177.7	1182.6
20°	1135.1	1133.8	1148.5	1154.5	1160.6
22.5°	1104.6	1104.6	1121.7	1129.0	1137.5
25°	1071.7	1072.9	1092.4	1102.2	1110.7
27.5°	1036.4	1037.6	1060.8	1072.9	1082.7
30°	997.4	1002.3	1026.7	1042.5	1053.5
32.5°	958.5	964.6	991.4	1009.6	1021.8
35°	917.1	924.4	954.8	975.5	988.9
37.5°	874.4	883.0	915.8	939.0	954.8
40°	831.8	841.6	875.7	902.4	920.7
42.5°	786.7	797.7	835.5	867.1	886.6
45°	741.7	753.9	792.8	830.6	852.5
47.5°	696.6	711.2	752.6	794.1	817.2
50°	650.3	665.0	708.8	756.3	779.4
52.5°	604.1	621.1	669.8	718.5	741.7
55°	559.0	576.1	628.4	679.6	702.7
57.5°	512.7	529.8	587.0	640.6	663.7
60°	465.2	484.7	544.4	599.2	624.8
62.5°	418.9	439.7	503.0	561.4	585.8
65°	372.7	394.6	460.4	521.3	545.6
67.5°	325.2	350.7	418.9	481.1	506.6
70°	278.9	306.9	378.8	440.9	465.2
72.5°	233.8	264.3	338.6	401.9	416.5
75°	188.8	224.1	299.6	334.9	334.9
77.5°	146.1	185.1	255.8	269.2	276.5
80°	106.0	148.6	192.4	208.3	205.8
82.5°	70.6	113.3	137.6	137.6	134.0
85°	40.2	68.2	74.3	71.9	70.6
87.5°	17.1	25.6	23.1	18.3	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)