

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: P261027

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3429.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

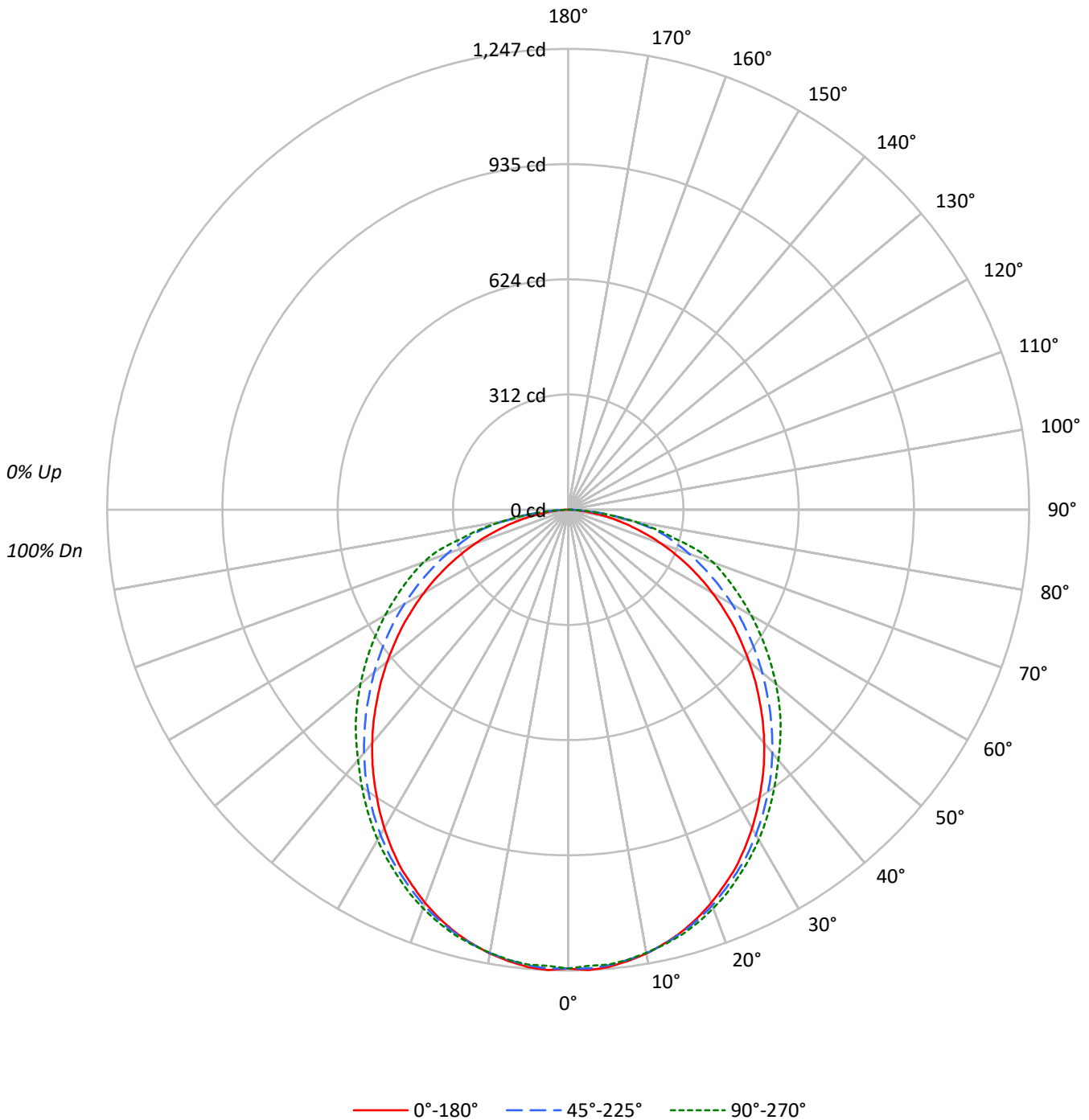
Input Watts (W): 25.98792
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1670	1670	1670
5°	1678	1672	1669
10°	1666	1665	1663
15°	1648	1651	1658
20°	1621	1632	1643
25°	1589	1606	1623
30°	1546	1578	1602
35°	1497	1544	1576
40°	1449	1509	1553
45°	1394	1470	1546
50°	1337	1433	1536
55°	1279	1403	1531
60°	1213	1379	1538
65°	1141	1362	1569
70°	1050	1369	1643
75°	931	1418	1530
80°	778	1344	1379
85°	582	1074	986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	3.4
10°-20°	333.8	9.7
20°-30°	497.4	14.5
30°-40°	585.6	17.1
40°-50°	595.1	17.4
50°-60°	535.0	15.6
60°-70°	422.7	12.3
70°-80°	268.1	7.8
80°-90°	74.0	2.2
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°	948.6	27.7
0°-40°	1534.1	44.7
0°-60°	2664.2	77.7
0°-90°	3429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1242	1232	1238	1236	1236	118
15°	1183	1178	1186	1189	1190	333
25°	1070	1069	1082	1088	1093	492
35°	912	917	940	950	960	570
45°	732	743	772	795	812	565
55°	545	559	598	637	653	487
65°	358	376	428	475	493	355
75°	179	210	273	297	294	191
85°	38	65	70	64	64	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1247.1	1237.9	1242.5	1240.2	1235.7
5°	1242.5	1232.2	1237.9	1235.7	1235.7
7.5°	1232.2	1224.2	1228.8	1227.7	1228.8
10°	1219.7	1211.7	1218.5	1218.5	1217.4
12.5°	1202.6	1195.7	1203.7	1203.7	1204.9
15°	1183.2	1177.5	1185.5	1188.9	1190.0
17.5°	1159.2	1153.5	1163.8	1167.2	1170.6
20°	1131.8	1129.5	1139.8	1143.2	1147.8
22.5°	1101.0	1101.0	1111.3	1115.9	1122.7
25°	1070.2	1069.1	1081.6	1088.5	1093.0
27.5°	1033.7	1034.8	1050.8	1057.7	1063.4
30°	994.9	997.2	1015.5	1023.4	1031.4
32.5°	953.8	958.4	978.9	988.1	996.1
35°	911.6	917.3	940.1	950.4	959.5
37.5°	869.4	877.4	901.4	911.6	921.9
40°	824.9	831.8	859.1	871.7	884.2
42.5°	779.3	788.4	815.8	834.0	848.9
45°	732.5	742.8	772.4	795.2	812.4
47.5°	685.7	699.4	727.9	758.7	773.6
50°	638.9	652.6	684.6	718.8	733.6
52.5°	591.0	604.7	641.2	676.6	692.6
55°	545.4	559.1	597.9	636.7	652.6
57.5°	497.5	512.3	555.6	595.6	611.6
60°	450.7	465.5	512.3	554.5	571.6
62.5°	405.0	421.0	470.1	514.6	531.7
65°	358.3	376.5	427.9	474.6	492.9
67.5°	312.6	333.2	386.8	435.8	455.2
70°	267.0	290.9	348.0	398.2	417.6
72.5°	222.5	248.7	309.2	359.4	369.7
75°	179.1	209.9	272.7	296.6	294.4
77.5°	138.1	172.3	231.6	236.2	243.0
80°	100.4	138.1	173.4	182.6	178.0
82.5°	66.2	103.8	124.4	119.8	118.7
85°	37.7	65.0	69.6	63.9	63.9
87.5°	16.0	26.2	22.8	17.1	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)