

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: P260559

Luminaire Tested: **24CZ-LD5-35-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260559
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.0 lumens
Efficiency: N/A
Efficacy: 149.4 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

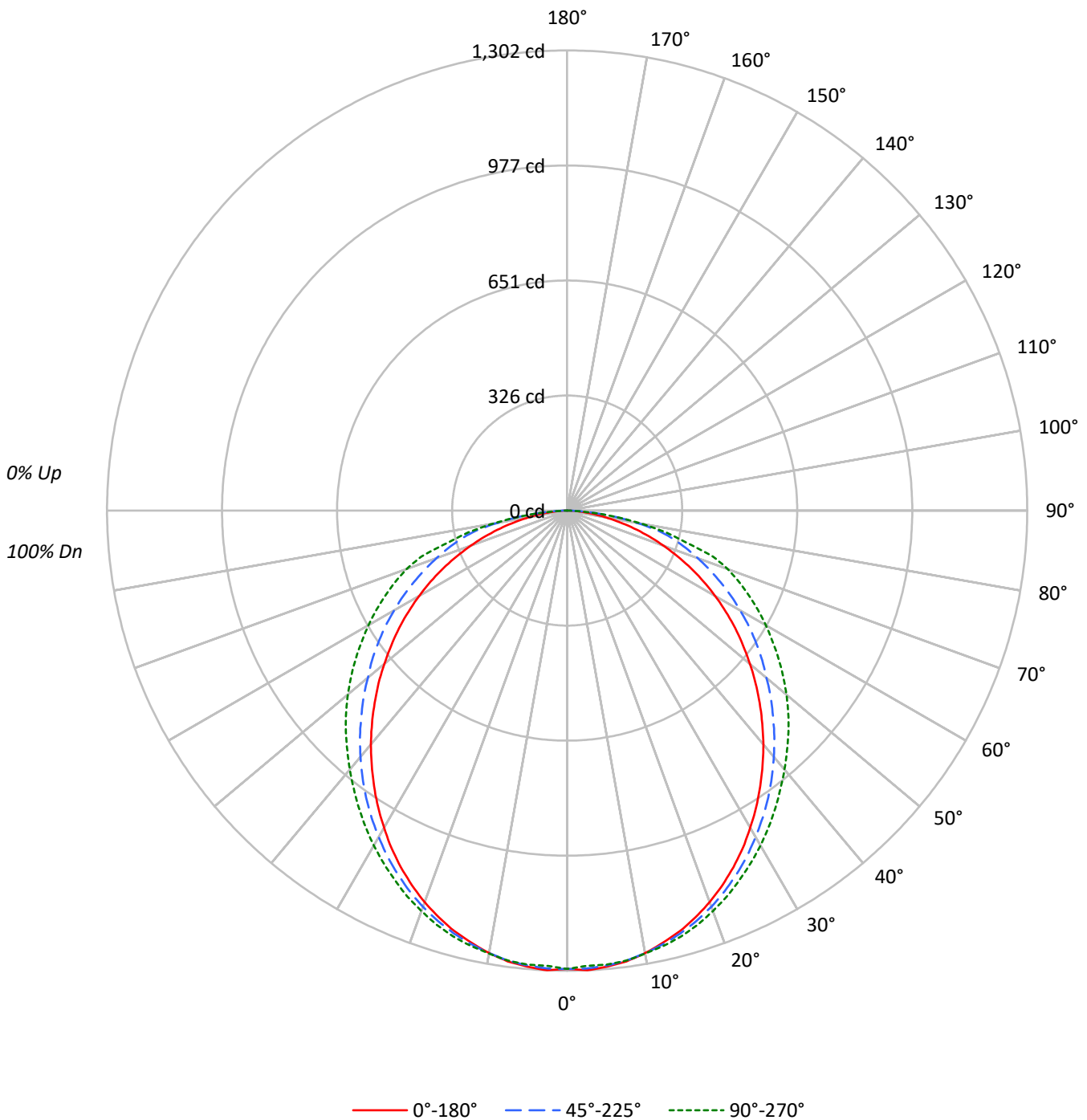
Input Watts (W): 24.73614
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260559

CATALOG NUMBER: 24CZ-LD5-35-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P260559

CATALOG NUMBER: 24CZ-LD5-35-UNV-L83050-W2A1-U-4000K

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°	1745	1745	1745
5°	1750	1745	1741
10°	1737	1737	1739
15°	1716	1725	1738
20°	1688	1708	1726
25°	1653	1685	1713
30°	1610	1657	1700
35°	1565	1629	1687
40°	1518	1598	1680
45°	1466	1567	1685
50°	1414	1541	1695
55°	1362	1531	1712
60°	1301	1522	1746
65°	1232	1522	1805
70°	1140	1548	1901
75°	1019	1618	1809
80°	853	1549	1657
85°	644	1192	1133



TEST NUMBER: P260559

CATALOG NUMBER: 24CZ-LD5-35-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.3
10°-20°	348.8	9.4
20°-30°	521.4	14.1
30°-40°	618.5	16.7
40°-50°	636.6	17.2
50°-60°	584.0	15.8
60°-70°	472.2	12.8
70°-80°	306.5	8.3
80°-90°	84.5	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°	992.7	26.9
0°-40°	1611.2	43.6
0°-60°	2831.8	76.6
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1296	1287	1292	1290	1289	123
15°	1232	1227	1239	1244	1247	347
25°	1113	1115	1135	1145	1154	512
35°	953	960	992	1013	1027	596
45°	770	783	824	863	886	595
55°	581	598	653	706	730	519
65°	387	410	478	542	567	383
75°	196	233	311	348	348	208
85°	42	71	77	75	73	51
90°	0	0	0	0	0	



TEST NUMBER: P260559

CATALOG NUMBER: 24CZ-LD5-35-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1301.8	1291.7	1296.8	1295.5	1289.2
5°	1295.5	1286.6	1291.7	1290.4	1289.2
7.5°	1286.6	1277.8	1284.1	1282.8	1284.1
10°	1271.5	1263.9	1271.5	1272.7	1272.7
12.5°	1252.5	1246.1	1256.3	1258.8	1261.3
15°	1232.2	1227.2	1238.6	1243.6	1247.4
17.5°	1206.9	1203.1	1217.1	1223.4	1228.4
20°	1179.1	1177.8	1193.0	1199.3	1205.7
22.5°	1147.5	1147.5	1165.2	1172.8	1181.6
25°	1113.3	1114.6	1134.8	1144.9	1153.8
27.5°	1076.6	1077.9	1101.9	1114.6	1124.7
30°	1036.1	1041.2	1066.5	1082.9	1094.3
32.5°	995.7	1002.0	1029.8	1048.8	1061.4
35°	952.6	960.2	991.9	1013.4	1027.3
37.5°	908.4	917.2	951.4	975.4	991.9
40°	864.1	874.2	909.6	937.5	956.4
42.5°	817.3	828.7	867.9	900.8	921.0
45°	770.5	783.1	823.6	862.8	885.6
47.5°	723.7	738.8	781.8	824.9	848.9
50°	675.6	690.8	736.3	785.6	809.7
52.5°	627.5	645.2	695.8	746.4	770.5
55°	580.7	598.4	652.8	705.9	730.0
57.5°	532.6	550.3	609.8	665.5	689.5
60°	483.3	503.5	565.5	622.4	649.0
62.5°	435.2	456.7	522.5	583.2	608.5
65°	387.1	409.9	478.2	541.5	566.8
67.5°	337.8	364.4	435.2	499.7	526.3
70°	289.7	318.8	393.5	458.0	483.3
72.5°	242.9	274.5	351.7	417.5	432.7
75°	196.1	232.8	311.2	347.9	347.9
77.5°	151.8	192.3	265.7	279.6	287.2
80°	110.1	154.3	199.9	216.3	213.8
82.5°	73.4	117.7	143.0	143.0	139.2
85°	41.7	70.8	77.2	74.6	73.4
87.5°	17.7	26.6	24.0	19.0	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)